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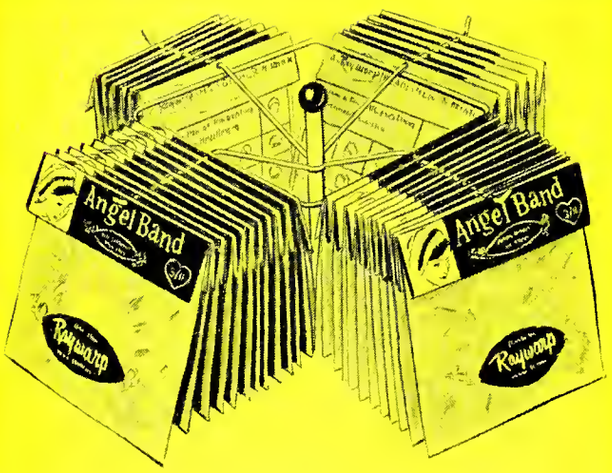
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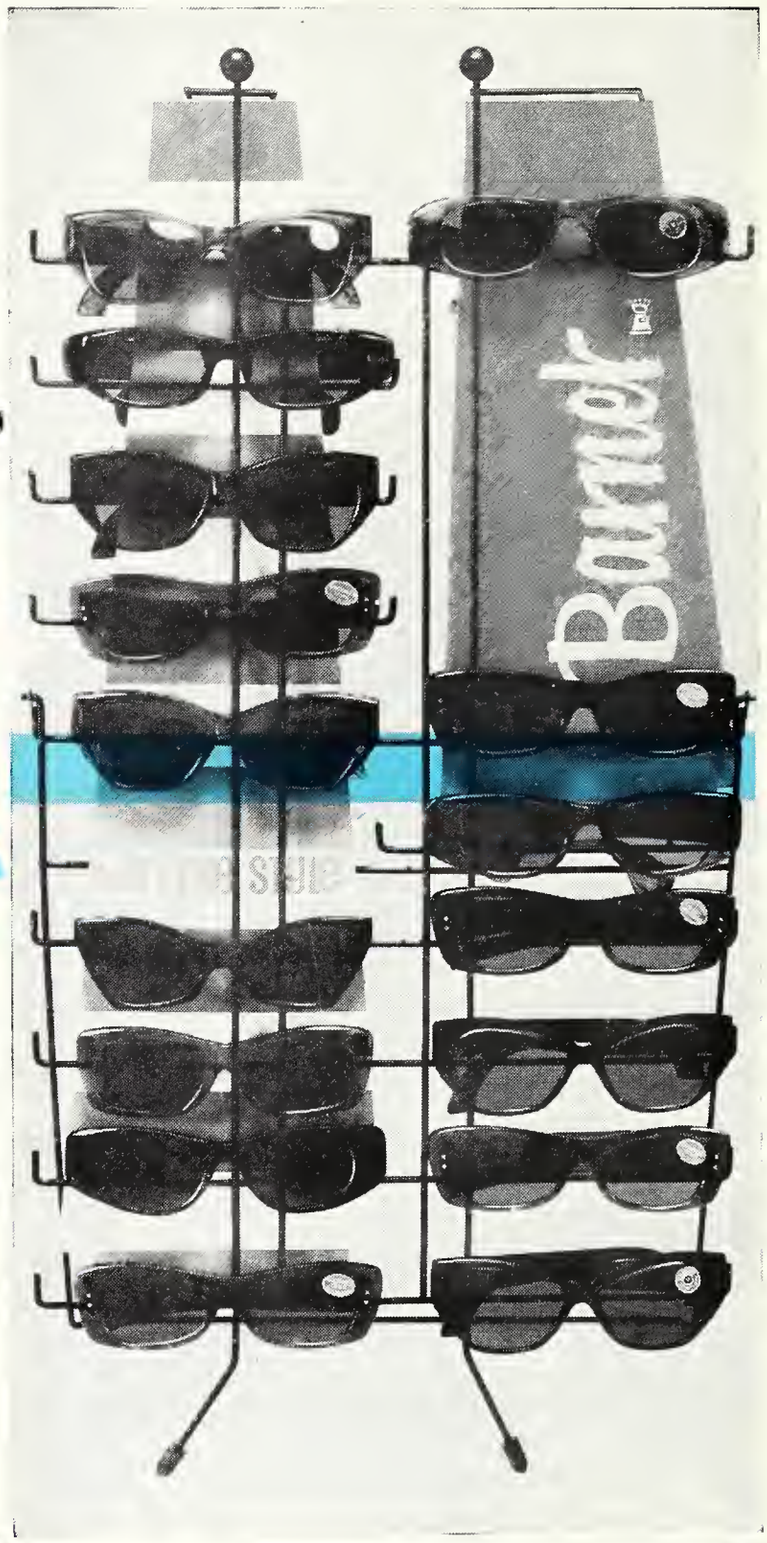




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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 177 April 7, 1962 No. 4286

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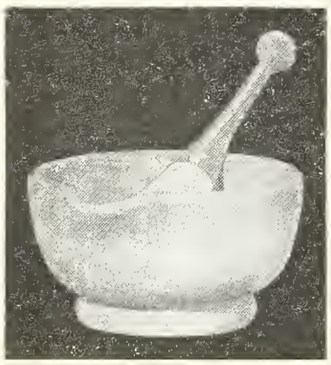
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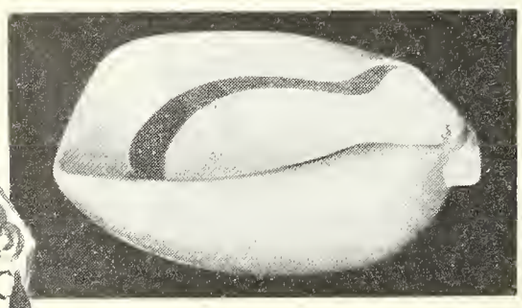
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The CHEMIST AND DRUGGIST

Volume 177 APRIL 7, 1962 No. 4286

Purchase Tax Changes

ADDITIONAL LIST OF EXEMPTED DRUGS

WITH one week to go before the Budget, the Treasury has issued the Purchase Tax (No. 1) Order, 1962 (S.I. 1962 No. 595) which amends the schedule of essential drugs and medicines exempt from purchase tax under the Purchase Tax (No. 2) Order, 1961, by making a number of additions and extensions to the existing list, which has been in force since December 1961.

The Order applies to goods dispatched by registered traders to unregistered traders, etc., or to imported goods, on or after April 2. The additions to the list, together with the corresponding proprietary product where known are as follows:—Under HEAD III: Cyclopentolate, and salts thereof [Mydrilate]; emylcamate [Striatran]; ethebenecid [Urelim]; haloperidol [Serenace]; oxyphenbutazone [Tanderil]; theobromine calcium combined with one or more of the following substances that is to say calcium salicylate and potassium iodide [calcium Diuretin and Iod-calcium Diuretin]; thioproperazine, and salts thereof [Majeptil]. The existing entry in Head III for dihydrocodeine, and salts thereof, has been extended by the words italicised as follows:—Dihydrocodeine, and salts thereof, *whether or not mixed with one or more of the following substances, that is to say, ammonium salicylate and liquid extract of thyme* [Paracodin]. In addition the entry for 2:4-diamino-5-(3:4-dimethoxybenzyl) pyrimidine whether or not mixed with sulphaquinoxaline is transferred to Head III from Head II.

Agricultural Research

REPORT FOR THE YEAR 1960-61

AN agreement between the Pirbright Research Institute and the Wellcome Foundation, Ltd., for the commercial production for sale abroad of a range of attenuated live vaccines for the control of foot-and-mouth disease, is referred to in the Report of the Agricultural Research Council, 1960-61 (H.M. Stationery Office, price 5s. 6d.). The report states that the Institute had produced modified live virus vaccines for use against a number of different virus types, notably those found in Africa, and extensive field trials were carried out that were most encouraging. However, it was apparent that the Institute required assistance with the further development of the vaccines for commercial production if the staff were not to be diverted from their proper function of research. Under the terms of the agreement the Institute provides the building and the Foundation the equipment and staff. The production and sale of the vaccines is to be undertaken by the Foundation and the gross profit from the sales divided equally between the parties to the agreement. In the report an account is given of two diseases of animals, scrapic in sheep and leucosis in poultry.

Council Election

SIXTEEN CANDIDATES, SEVEN SEATS

SIXTEEN of the eighteen candidates nominated for election to the Council of the Pharmaceutical Society have accepted nomination. They are:—

J. F. BARNES, Liverpool.
E. A. BROCKLEHURST, Hull.
M. A. BURR, Nottingham.
W. M. DARLING, Cleadon Village.
T. W. FISHER, Wakefield.
J. B. GROSSET, Edinburgh.
T. HESELTINE, Normanton.
K. HOLLAND, Upminster.
D. W. HUDSON, Hove.
G. S. KNOWLES, Hoylake.
G. LOWTHER, Bolton.
A. G. M. MADGE, Plymouth.
H. NEVILLE, Llandudno.
C. H. ROBINSON, Mansfield, Notts.
H. STEINMAN, Manchester.
C. E. TURNER, Stoke-on-Trent.

The following were nominated but did not accept nomination:—G. T. M. David, Swansea, and E. Knott, Edinburgh.

Retail Sales

BOARD OF TRADE FIGURES

RECENTLY issued Board of Trade figures show that the sale of chemists' goods by independent retailers in February was 5·5 per cent. lower than in January, but 3·3 per cent. higher than in February 1961. Multiple retailers' sales were 1·8 per cent. lower than in January, but 5·7 per cent. higher than in February 1961. Sales by Co-operative societies in February were unchanged compared with January, but 3·5 per cent. lower than in February 1961. The figures do not allow for receipts under the National Health Service.

County of London

PHARMACEUTICAL ASSOCIATION VIEWS

THE Associates' Section of the National Pharmaceutical Union should be supported by all employee pharmacists. That was the conclusion arrived at after a long discussion between members of the London County Pharmaceutical Association on March 25. The Pharmaceutical Society, it was felt, was still hampered by the Jenkin decision and could not take up Union activities. The N.P.U. had offered to organise the setting-up of an employees' union and had indicated that the Section would be self-governing once sufficient support had been received. Members of the Association felt that the idea of the National Pharmaceutical Union as an "umbrella" union of all sections of pharmacy deserved support. Separate sections of the Union could be organised into (i) an employers' section and (ii) an employees' section consisting of (a) retail and (b) hospital employees and (c) other pharmacists. The main consideration should be a united front of all pharmacists for negotiation at Government level. Internally each section could function independently of one another yet have close liaison at



FACTORY VISIT: Sir Keith Joseph (Minister of State, Board of Trade) at the Bridgend, Glam, factory of Miles Laboratories, Ltd., on March 22. Left to right: Mr. J. H. Bunce (executive director, Miles Products division), Mr. J. A. Brindle (director of production and development), Sir Keith, Mr. T. C. Black (executive director, Ames Co. division), Mr. Hugh Rees, M.P.

top level. The election of employee representatives on Pharmaceutical Committees could be simplified in that an electoral roll would be in existence and hospital and retail employee representatives would be elected from suitable candidates. The present system tended to favour the election of candidates from the multiples. The Joint Industrial Council wages agreement should have the benefit of the views of all sections of the union. The N.P.U. elections came under criticism by the Association. There was some discussion on the fact that owners of several businesses had plural votes. Was it right that one member of the N.P.U. could have six votes if he owned six shops? The Committee deplored the decision of a manufacturer who had terminated his agreement to supply N.P.U. hot-water bottles; they urged that no further support should be given to firms who adopted that policy. Other manufacturers who were now supplying cut-price stores and supermarkets should also feel the weight of the disapproval of all retail pharmacists. It was noted that certain manufacturers had refused to give any concessions on the reduced prices of their products. Full support should be given to firms that always dealt fairly with their pharmaceutical friends.

Diseases of Animals Act

REPORT FOR 1961

NINE manufacturing and eight import licences were issued by the Ministry of Agriculture at the beginning of 1961 in respect of veterinary therapeutic substances. During the year one manufacturing licence lapsed and one manufacturing licence was granted. Two import licences lapsed and two were granted. At the end of the year there were 329 products listed in licences. That information is given in the Return of Proceedings under the Diseases of Animals Act, 1950, for the year 1961 (H.M. Stationery Office, price eightpence). No serum or glandular extract for the treatment of farm animals may be used unless it is free from contamination by foot-and-mouth disease virus. To meet that condition such products are required to bear an official label of approval. At the end of 1961, there were 156 preparations for which the use of the official label had been authorised. Disinfection under any Diseases of Animals order or regulation must be carried out with an approved disinfectant. At the end of the year, the approved list comprised eighty-two disinfectants produced by forty-three manufacturers and sold under 307 different names. The total number of approved dips was 226, of which 160 were single dips and sixty-six double dips. The dips were prepared by thirty-nine manufacturers and sold under 989 different names.

Pharmacy Off-licences

DECISIONS BY LOCAL JUSTICES

EXCISE off-licences for the sale of intoxicating liquor were granted by local justices recently to the following: Blackpool Co-operative Chemists, Ltd., Sheppard Street, Blackpool, Lancs (wines, spirits); Barash (Chemists), Ltd., 166 Bury New Road, Whitefield, Lancs (medicated wines); Crewe Co-operative Friendly Society, Ltd., 1 Co-operative Street, Crewe, Ches (wines, spirits); S. B. J. Ellis, M.P.S., 334 High Street, Chatham, Kent (medicated wines); Farnworth & Kearsley Industrial Co-operative Society, Ltd., 7 Brackley Street and 28 Egerton Street, Farnworth, Bolton, Lancs (wines, spirits); Plymouth Co-operative Society, Ltd., 4 Moorland Villas, Yelverton, Devon (wines, spirits); H. Fletcher, M.P.S., 331 Garstang Road, Fulwood, Preston, Lancs (wines, spirits); H. Gill, M.P.S., 64 Milton Road, Ellesmere Port, Ches (wines, spirits); D. R. C. Jones, M.P.S., Glyn Pharmacy, High Street, Glyn-Neath, Glam (wines, spirits); D. R. Morgan, M.P.S., The Pharmacy, Nantyffyllon, Bridgend, Glam (wines); National Co-operative Chemists, Ltd., 15 New Street Square, Neath, Glam (wines, spirits); G. H. Pickles, Ltd., 297 Wakefield Road, Bradford, Yorks (wines, spirits); H. N. Robinson, M.P.S., 27 Market Place, Donington, Lincs (wines, spirits); W. Smith, M.P.S., Tuel Lane Pharmacy, Sowerby Bridge, Yorks (wines, spirits); Taylors Drug Co., Ltd., Barnoldswick, Yorks (wines, spirits); J. T. Widgery, M.P.S., 30 West Street, Weston-super-Mare, Somerset (wines, spirits).

SCOTTISH NEWS

Tariff Prices Postponed

HEALTH DEPARTMENT'S CONCESSION

THE Department of Health for Scotland has agreed to delay bringing into effect, for the purposes of prescription pricing, the new reduced prices for certain antibiotics that took effect on March 12 (see *C. & D.*, March 10, p. 260) "in view of the exceptional circumstances surrounding the reduction." Prescriptions are being priced at the present rate until May 1. The Pharmaceutical General Council (Scotland) has also agreed that, with prescriptions dispensed on or after April 1, chemists will be instructed to sort them into three groups: Group A, with ingredients valued at 20s. or over; group B, consisting of all remaining EC10 forms valued at less than 20s.; and group C which will include those forms formerly classified as "miscellaneous," *viz.*, R.B.B. (hospital), EC14 (dental), EC10A (doctors' stock orders), EC10 forms for surgical appliances, etc., and those marked "urgent." The Council is confident that, with chemists' co-operation, the new procedure will result in quicker and more accurate payment.

IRISH NEWS

THE REPUBLIC

"Milestone" for a Company

BIGGEST FOREIGN ORDER

THE 250-strong staff of Antigen, Ltd., pharmaceutical manufacturers, Roscrea, co. Tipperary, Irish Republic, are working at full stretch to ensure that the biggest single overseas order ever received for Irish medical products is dispatched on time and in perfect condition. The order, which includes 100 million tablets and 6 million units of injectable preparations, is destined for the Far East. It was secured in the face of stiff international opposition. The quantity of tablets involved represents twenty times the total Antigen output for 1953 (the first year of tablet manufacture). Production of the firm's range of antibiotics, galenicals, transfusion solutions and veterinary preparations has increased considerably since operations began in 1949. Sales in the home and export markets have shown a substantial increase over the same period, and a vigorous development programme has placed many Irish pharmaceutical products in many foreign markets.

THE NORTH

Broken Bulk Claims

PHARMACEUTICAL COMMITTEE'S PLAN

A SCHEME to protect Northern Ireland's pharmacists from incurring losses on broken bulks of expensive and infrequently dispensed preparations came into effect on April 1. The Local Pharmaceutical Committee warns pharmacists, however, that the plan should be worked in "a reasonable manner and with great care." It is suggested that a label affixed to the bulk container, marked distinctly with the date the claim was made for it, should obviate the possibility of a second claim being inadvertently made later on, and thus minimise the risk of a charge being brought before the Services Committee. Prescriptions on which a claim is being made must not be coded but should be marked with the "diamond" and included in the appropriate bundle. Subsequent prescriptions for the balance, which must not be coded, should indicate that payment has been already claimed for the whole or part of the preparation. The following points are emphasised: (1) The scheme will not cover a case where a product is packed in, say, twelve's and 100's and twenty-four are ordered. The Board would expect two twelve's to be used, not *ex* 100. In exceptional circumstances a claim might be considered for a larger pack but in such instance fullest particulars should accompany the claim. (2) All the following points must apply before a claim is considered: (a) The product is a proprietary preparation not included in the Drug Tariff; (b) the product was obtained specially for the prescription for which the claim is made and the product has not recently been dispensed by the chemist; (c) the chemist has used the smallest pack for dispensing the prescriptions, except that in the most exceptional circumstances a claim from a larger pack may be considered; (d) the cost to the chemist of the quantity remaining in stock is not less than 10s. (3) The chemist must make a proper claim giving all necessary details.

IRISH BREVITIES

THE NORTH

THE first commercial consignment of oral Sabin poliomyelitis vaccine reached Belfast on March 22.

NEWS IN BRIEF

PRINCESS Margaret is to visit the Wilton works of Imperial Chemical Industries, Ltd., when she goes to open a cobalt "bomb" unit at North Ormesby hospital on April 10.

SIXTY parcels of opium, stated to be worth more than £200,000 on the illegal market, were seized from an Indian ship at Tilbury Docks on March 28. The haul was the biggest ever confiscated in Britain.

AT the annual meeting of the British Disinfectant Manufacturers' Association on March 27, the following officers were elected :—*Chairman,* Mr. W. Deans; *Vice-chairman,* Mr. R. Rigby; and *Treasurer,* Mr. T. R. Auchincloss.

THE Board of Trade state that they are considering an application for the imposition of anti-dumping duties on gelatin and glue from South Africa in addition to the European countries mentioned earlier (*C. & D.,* March 17, p. 288).

CLAIMING that it had been feared that chemists would be swamped with non-urgent prescriptions if a late duty rota were published in the local Press, the Pharmaceutical Committee of the Soke of Peterborough Executive Council has decided to permit publication of the rota for an experimental period of three months.

THE Factories Act, 1961, came into operation on April 1. Without amending the law, it consolidates in one statute the provisions of the Factories Acts, 1937, 1948 and 1959, and related legislation. The Ministry of Labour has published a new and revised edition of the publication. It is entitled "The Factories Act, 1961; A Short Guide." (H.M. Stationery Office, price ninepence).

A LETTER over the signature of Mr. F. W. Adams (registrar of the Pharmaceutical Society) in the *Guardian* on March 28 pointed out the state of affairs referred to in an article "New Thinking on Higher Education," in which pharmaceutical chemists had been stated to be "among those who qualify without necessarily setting foot in a place devoted solely to teaching," had not existed for upwards of forty years. Today the pharmaceutical student, wrote Mr. Adams, after obtaining the General Certificate of Education in three subjects at advanced level, underwent a three-year academic course. More than 50 per cent. of students were reading for university degrees.

SPORT

Golf.—LONDON CHEMISTS' GOLFING SOCIETY. Officers for 1962-63:—*President,* W. S. Hutcheon; *Captain,* A. S. Jerwood; *Vice-captain,* J. A. Bennett; *Secretary and Treasurer,* A. S. Jerwood; *Auditors,* R. Julliard and E. G. Smith; *Committee,* H. A. Coward, R. H. Davies, J. Deas, R. Julliard, C. H. Maile, G. T. Morson, L. D. Smith, R. L. Taylor, B. F. Tisdall. Mr. J. Deas was elected an honorary member.

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY

Edinburgh and South-eastern Scottish Branch.—*Chairman,* J. H. Henderson; *Vice-chairman,* W. Somerville Tait; *Treasurer,* A. W. Patterson; *Secretary,* E. Knott, 36 Craigleith Road, Edinburgh, 4. (Telephone: Dean 2624.)

TOPICAL REFLECTIONS

By Xrayser

The will of the people

The democratic process of election, jealously safeguarded in this country, is generally regarded as the fairest way of choosing representatives, whether parliamentary, municipal or pharmaceutical. Viewed in that light, there can be no complaint in the choice of the electorate in the recent area election of members of the Executive of the National Pharmaceutical Union. After the long and faithful service of Mr. G. H. M. Graham, there will be considerable sympathy with him in his heavy defcat in the North-eastern Division, for it seems that the wrath of the electorate with the dictatorial Minister of Health (Mr. Enoch Powell) has been visited on the head of the chairman of the Central N.H.S. (Chemist Contractors) Committee. In the extremely difficult situation in which that Committee found itself, it is not easy to see what other line could have been followed in the face of an intractable opposition from a Minister who had discarded the principle of negotiation. The electorate in its righteous indignation, having no means at hand of unseating the Minister, chose Mr. Graham as a vehicle for demonstrating their dissatisfaction with the present situation. The result might have been otherwise if the elections had been on a broad, national, instead of territorial, basis, but that is only speculation. What is made perfectly clear is that the contractors are extremely dissatisfied at the moment, for they are now able to appreciate by harsh experience the full effects of the changed conditions so arbitrarily imposed. The Minister is already drawing attention to the increased cost of the individual prescription, and may have to be forcibly reminded that his estimate of a 2 per cent. drop in the numbers of prescriptions was not accurate. I have felt, personally, despite what I have written above, that the change of front presented by the demand for a professional fee was perhaps not well timed, but I fully appreciate the exasperation caused when actuarial minds took the penny as the unit for metrical subdivision.

Public relations

Mr. D. F. Lewis (assistant secretary of the Pharmaceutical Society), in his address (p. 350) to the West Glamorgan branch of the Society, has given a little more information on the decision to engage a firm of public-relations consultants whose function is to inculcate public appreciation of the pharmacist, thereby preventing, so far as is possible, adverse and uninformed comment in the Press and elsewhere. But the most important part of the address, so far as his audience was concerned, came in the conclusion, in which Mr. Lewis said that it was branch members themselves who were the best public-relations officers, and that the final solution to the problem was in their own hands. That cannot be said too often, for the esteem in which the profession is held by the public can only be built up at first hand. The proof of the pudding, we have been taught, lies in the eating of it, and not—to bring the art of puddings up to date—in the Technicolor picture on the outside of the packet. If a pharmacy looks pharmaceutical, and if its pharmacist acts professionally, the public will respond. It is difficult to press home the need for professional fees in surroundings that look like a bazaar.

Unfortunate

It is unfortunate, as you write in your editorial comment (p. 351) that so much uninformed comment should have arisen in the debate in the House of Lords concerning the action of the withdrawn drug thalidomide. There, also, is demonstrated the need shown for public relations of a personal kind. It must be supposed that most members of both the upper and the lower Houses have occasion to enter a pharmacy and, if the pharmacist himself has built up a position of professional trust and esteem, it would be the natural thing for anyone intending to take part in Parliamentary debate to seek accurate information to help in presenting his case, even allowing that Lady Summerskill was too busy to glance at her medical journals. No professional handout by public-relations consultants can be so effective as the personal touch.

NATIONAL PHARMACEUTICAL UNION

Meeting of Executive Committee

THE Executive Committee of the National Pharmaceutical Union met in London on March 28, Mr. A. Howells in the chair. Business included reports presented by the chairmen of the various subcommittees on meetings held on March 27.

Auditors' Report on Elections

A report on the elections was presented by the auditors (who had, as in past years, carried out the count). The chairman and members of the Executive Committee paid warm tributes to Messrs. S. J. Stearn and G. H. M. Graham. Messrs. D. MacLaren Todd and R. Valentine were also thanked for their services since they joined the Committee in 1959. Mr. Stearn had been a member of the Executive Committee for thirty-two years; he was chairman, 1935-36 and 1938-39, and had been treasurer of the N.P.U. since 1950. Mr. G. H. M. Graham had been a member of the Executive Committee for eighteen years, was its chairman, 1947-48 and 1948-49, and had been chairman of the Central N.H.S. (Chemist Contractors) Committee since 1953. The Executive were conscious of the sacrifices that Messrs. Stearn and Graham in particular had made over the years in order to serve the interests of retail pharmacy generally. Messrs. Graham, Stearn, MacLaren Todd and Valentine replied appropriately.

Of the seventeen schemes submitted by shopfitting organisations in connection with the N.P.U. national pharmacy modernisation project, three were judged outstanding. A final decision on which of the three schemes was to be selected for adoption would be made and announced shortly.

Two research organisations had recently approached the secretary because N.P.U. members had refused to supply information about their businesses. Both organisations had furnished details of the nature of the information which they were seeking to collect. After considering the information and a questionnaire, the Marketing Policy and Executive Committees decided to make no change in the advice already given to members—namely, that they should not co-operate with market research organisations and others, including manufacturers, who wished to collect information about sales and stocks of proprietary medicines or about turnovers in sections of retail pharmacy businesses.

Consideration was given to the future of the range of N.P.U. sponsored hot-water bottles in the light of the decision by William Freeman & Co., Ltd., to discontinue manufacturing N.P.U. bottles. The Executive approved a decision of the Marketing Policy Committee to sponsor the whole range of hot-water bottles supplied by S. Maw Son & Sons, Ltd., retailing at from 5s. to 9s. 6d. The range would be extended to include a new hot-water bottle with a rubber closure to retail at 5s. and to be known as the "N.P.U." hot-water bottle. Arrangements were made for N.P.U. members to have the benefit of special bonus terms when representatives of Maws called on members on or after May 1.

CENTRAL N.H.S. COMMITTEE

Aim at forthcoming meeting with Ministry

THE Central N.H.S. (Chemist Contractors) Committee, which met in London on March 27, Mr. G. H. M. Graham in the chair, considered a report from the Union's industrial consultants, representatives of whom attended the meeting. Arrangements have been made for representatives of the Committee and of the industrial consultants to meet the Permanent Secretary and officers of the Ministry of Health later this month to discuss ways in which factual information can be collected from a small number of pharmacies about the expenses of providing pharmaceutical service. The Committee's aim is to secure a 100 per cent. response from a representative sample much smaller than that used in the 1958 inquiry, and previously agreed with the Ministry, so that no room remains for argument by the Ministry on whether or not the results may be regarded as representative of England and Wales as a whole.

The Committee also decided to seek information from chemist contractors with branch pharmacies throughout England and Wales on the changes that have taken place in certain expenses between 1957-58, the period to which the last dispensing costs inquiry related, and 1961-62. Direct approach is being made to each N.P.U. member concerned. For multiple and Co-operative pharmacies the required information is being obtained through the multiple and Co-operative representatives on the Central N.H.S. Committee.

The Committee decided to ask the Ministry to arrange to make an inquiry into the economics of the present container allowance. (The allowance has remained at the existing level, 1·62d. per prescription, since February 1958.)

Amongst other items discussed were the supply of drugs in rural areas, the return of empty containers, and reductions in prices of antibiotics without credit being allowed for stocks on hand by the manufacturers concerned.

BRANCH EVENTS

HOUNSLOW

Ministry's Policies "Deplored"

MORE than 2,000 compounds were screened for every one new drug that was put on the market said Dr. J. A. L. Gorringe (director of clinical investigations, Parke Davis & Co.) at a meeting of Hounslow Branch of the Society recently. Even so, he continued, it was only once in a generation that a major discovery was made. Dr. Gorringe described the lengthy laboratory and clinical trials a new therapeutic agent underwent before it was generally released. The speaker deplored the recent policies of the Minister of Health aimed at reducing the country's drug bill. This would have the effect of depriving the country of a vast amount of valuable research by cutting off the necessary money for research from the pharmaceutical companies, he said. "This can do nothing but harm to medical progress," stressed Dr. Gorringe, "unless the Minister plans to invest much more heavily in such organisations as the Medical Research Council which at present spends only half as much each year on research as the pharmaceutical industry does in Britain."

BIRMINGHAM

Annual Banquet and Ball

ON March 14, Birmingham Pharmaceutical Association held its annual banquet and ball. The chairman (Mr. F. J. Reynolds) welcomed 300 members and friends, among whom were the lord mayor and lady mayoress of Birmingham; the president of the Pharmaceutical Society (Mr. H. S. Grainger) and Mrs. Grainger; the medical officer of health for Birmingham (Dr. Millar); and the Clerk to the Birmingham Executive Committee (Mr. Day). The chairman proposed the toast "The City of Birmingham," the lord mayor responding. The toast to the Society was proposed by Dr. Millar, who commended the work of pharmacists in the Health Service, and the friendly atmosphere that existed between the Branch and the Health Committee. Mr. Grainger, who responded, said he was pleased to see present so many of the friends he had made when he previously worked as a hospital pharmacist in Birmingham.

PORTSMOUTH N.P.U.

Division on Associates' Section

MR. Albert Howells (National Pharmaceutical Union (chairman) addressed the Portsmouth Branch of the N.P.U. at Southsea on March 29 on the question of associate membership to the Union. After reporting on N.H.S. negotiations, he stressed the urgent need of strong non-self-employed representation. He thought it was unsatisfactory that thousands of managers had no say in National Health Service matters, and yet played an important part in it. At question time MR. MORLEY thought the Pharmaceutical Society was the obvious and only body able to embrace all pharmacists because it had the power of compulsory membership, and could act with the full support of members. Mr. Howells doubted if the Society wanted, or was able, to do that, their cares, he said, being in the rarer atmosphere of laws and ethics, rather than the day-to-day wrangle over material rewards. Subsequent speakers indicated that the meeting was divided. There were fears of one side being in charge whilst the associates would fall into a second-rate category. Mr. Howells emphasised that associate members would be welcomed on an equal basis as professional pharmacists.

COMPANY NEWS

Previous year's figures in parentheses

MACARTHYS PHARMACEUTICALS, LTD.—An interim dividend of 7½ per cent. is declared.

CIBA, A.G., Basle.—Profits for 1961 are 29,600,000 Swiss francs against 28,800,000 francs the previous year. The dividend remains at 90 francs a share.

GLAXO LABORATORIES (IRELAND), LTD. — Mr. W. J. McHugh joined the board as a full-time director as from April 2. He succeeds Mr. Donald MacKenzie as managing director. Mr. MacKenzie retires on September 30, but continues as a director of the company.

F. W. BERK & CO., LTD.—Subject to audit, consolidated profits, after all charges but before tax, fell to £617,261 for 1961 (against £684,787)—the 1961 figure includes the full year's profit of St. Albans Sand. A final dividend of 5½d. per 5s. share, making 8¼d. for 1961, is announced, the same total as previously but on increased capital.

MONSANTO CHEMICALS, LTD.—Mr. John C. Garrels (managing director) took over the responsibilities of chief executive of the company from Sir Miles Thomas on April 2. Sir Miles, who reached the age of sixty-five during March, will continue as chairman of the board. He will now be able to devote more time to his other interests.

JEYES' SANITARY COMPOUNDS, LTD.—Group net profits for 1961 were £101,724 (£113,587) and dividend one shilling per 5s. share (same), as stated previously (*C. & D.*, March 17, p. 291). Sales in 1961 increased by over 3 per cent, despite the elimination of certain unprofitable lines, saiys the chairman (Mr. R. G. Berchem) and an encouraging start has been made in 1962 with sales and profits satisfactorily ahead of last year. Capital expenditure was £192,720.

HICKSON & WELCH (HOLDINGS), LTD.—The company have concluded an agreement in South Africa for the purchase of the balance of the shares in Hickson's Timber Impregnation Co. (S.A.), Ltd., which until that time had been held outside the group. The purchase will have an additional effect of bringing the whole share capital of Hickson's Chemical Co. (Pty.), Ltd., in South Africa into the group, as at present 49 per cent. of it is held by the South African company.

SANITAS TRUST, LTD.—The Sanitas Trust, through a wholly owned subsidiary, Superma (Holdings), Ltd., is to acquire the whole of the issued share capital of Superma, Ltd. The consideration for the acquisition will be £100,000 in 5 per cent. unsecured loan stock of Superma (Holdings) repayable in 1982, which will be guaranteed by Sanitas, and £215,000, to be satisfied as to £115,000 in cash, and the balance of £100,000 by the issue of 83,333 ordinary shares in Sanitas. It is estimated that net profits before tax of Superma and its subsidiaries for the year ended March 31, will be not less than £80,000.

ALBRIGHT & WILSON, LTD. — Trading conditions in 1961 for the group, as for many other companies in the chemical industry and outside it, were among the most difficult in recent years, states the chairman (Sir Sydney Barratt) in the annual report for that year. Capital expenditure reached a peak at £8 millions (£3,900,000, including W. J. Bush for 1960); about two-fifths was spent overseas. In 1962 it is not likely to be so high but should exceed the 1960 figure. Many of the plants of Boake Roberts have been improved and capital expenditure aimed at new markets will increase sharply during 1962. Despite further cost increases, the benefit from higher sales and a lessening of the burden of plant commissioning, the chairman believes, should offset in 1962 the lower margins of the second half of 1961. (For accounts see *C. & D.*, March 10, p. 264.)

FISONS, LTD. — Sir John Carmichael and Mr. J. W. Napier (formerly a managing director), have been appointed executive vice-chairmen. The office of group managing director has been abolished. Elected to the board are Mr. Arnold Robinson, who joined the company in 1952 and was until recently chairman of Whiffen & Sons, Ltd., and deputy chairman of Fisons Overseas, Ltd., and Dr. E. Parry Jones (chairman and managing director, Fisons Pest Control, Ltd.). Mr. Robinson has taken up a new appointment as managing director of Fisons Fertilizers, Ltd. Mr. C. E. Horton, who joined the board in 1956 as research director, retired from executive duties on March 31, and has reliquished the office of vice-chairman upon reaching normal retirement date. He has accepted an invitation to remain on the board as a non-executive director. The resignation of Sir Thomas Bland, forecast by Sir Clavering Fison in his annual report, takes effect on March 29.

GLAXO GROUP, LTD.—Sales in the six months ended December 31, 1961, were up by 8 per cent. in value and more in volume over the same 1960 period but as a result of continued keen competition abroad and lower prices at home trading profits fell by 7 per cent. to £3·07 millions according to the company's interim report. An interim of 7½ per cent. is declared. The half-year's net profit was £1,544,000 compared with £1,716,000 in the six months ended December 31, 1960. In order that comparison may be made with the current year, the figures for the six months to December 31, 1960, include the results of Evans Medical, Ltd., although that company was acquired after January 1, 1961. The figures, which have not been audited, may be subject to adjustments that can only be made in the annual accounts. The provision for taxation is relatively higher at £1,750,000 (£1,759,000) by reason of the increase in profits tax imposed by the Finance Act 1961.

SIX leading Scottish chemical firms have merged into a group, to be known as Edinburgh Pharmaceutical Industries, Ltd., with an issued share capital of over £1 million and headquarters at Westfield Road, Edinburgh. Shareholders of each of the companies, headed by T. & H. Smith, Ltd., of Edinburgh and Glasgow, agreed to the merger at an extraordinary general meeting held on March 30. The Companies associated in this move are J. F. Macfarlan & Co., Ltd., and Duncan, Flockhart, & Co., Ltd., both based in Edinburgh; T. & H. Smith, Ltd., of Edinburgh and Glasgow; W. & R. Hatrick, Ltd., Glasgow; and William Paterson & Sons, Aberdeen. Also concerned are Macfarlane Smith, Ltd., Edinburgh, with subsidiaries in Canada, New Zealand and Australia; and Allied Laboratories, Ltd., London. Each company will retain its own board of directors. Directors of the new parent company are: Lord Ferrier of Culter (chairman), Alexander Forsyth, B.Sc., M.P.S. (managing director), J. A. Hiddleston (deputy managing director), E. H. M. Clutterbuck, J. S. Cuthbert, M. C. Ross, B.Sc., F.P.S., Dr. F. R. Smith, and F. H. N. Walker. Some of the companies have been in close association for several years, under the leadership of T. & H. Smith, Ltd., and that name will be retained by a subsidiary company engaged in wholesale pharmaceutical distribution. The Group employs 1,000 workers, including eighty graduates. The shares are not quoted on the Stock Exchange, but are held mainly by Scottish investment and insurance companies.

LEGAL REPORTS

Fines Cancelled, A Fine Increased

A SUCCESSFUL appeal by a pharmacist against fines for two of three offences under the Pharmacy and Poisons Act 1933 was allowed by the Liverpool County Appeals Committee on March 30. Mr. Myer Daulby, M.P.S., 45 Widnes Road, Widnes, had been fined £25 on each of three summonses at the Widnes magistrates' court on February 21 for supplying poisons without a prescription given by a qualified medical practitioner. Mr. Daulby's appeal was allowed on the grounds that there was no case to answer, the police being unable to prove that the tablets had been bought after September, 1961, when they first became scheduled poisons. On the third summons, in respect of which Daulby abandoned his appeal, the chairman said the penalty had been inadequate and increased the fine to £35. Defending, Mr. R. H. Montgomery said in that case the tablets had been sold by mistake for those in an adjoining bottle.

Placed on Probation

WHEN he appeared before the magistrates at Penrith, Cumberland, on March 28, Joseph Ronald Moore, M.P.S., formerly manager of Boots, Ltd., Penrith, Cumberland, was placed on probation for two years and ordered to repay the £172 he was alleged to have stolen from his employers. He was charged with stealing £29 13s. 1d. and £42 10s. during January. Two other charges were of alleged falsification of accounts by Moore in that he omitted from a credit cash sheet and from a cash statement, the receipt of cheques for £29 13s. 1d. and £42 10s. made payable to his employers. He pleaded guilty to all four charges and asked for five other offences to be taken into account. Defending solicitor said Moore had lost his job, his pension and his

position. There was no question of gambling or heavy drinking by the defendant. The simple explanation was that he had been living right up to and indeed beyond his income. The chairman of the bench said the court had a "difficult task in deciding where justice lies, for these are very serious matters. However, we have taken into account your previous good record and we are going to take a merciful view."

BUSINESS CHANGES

PEAKE CHEMISTS, LTD., transferred their branch at 48 Lime Green, Oldham, to 34 Lime Green, on April 2.

MR. N. R. OLPHIN, M.P.S., has opened the Pennington Pharmacy in South Street, Pennington, Lymington, Hants.

S. BRANNAN & SONS, LTD., announce that their Forest Hill, London, and Cleator Moor, West Cumberland, factories are now connected through the Post Office Telex Service under Thermo Forest 25544 and Thermo Cleator 6448.

Appointments

A. WANDER, LTD., 42 Upper Grosvenor Street, London, W.1, have appointed Dr. Barbara D. Marsh as assistant medical director, to be in charge of information service to the medical and pharmaceutical professions among other various duties.

J. BIBBY & SONS, LTD., King Edward Street, Liverpool, 3, have appointed Mr. H. D. Green as purchasing officer with responsibility at head office for all company purchases other than raw materials. Mr. G. E. R. Carey has been appointed joint sales manager with responsibility for staff and administration.

MARRIAGES

LOMAX — SOUTHWORTH. — At St. James Church, Lathom, nr. Liverpool, on March 28, Harold Michael Lomax, M.P.S., Belvidere, Greetly Hill, Ormskirk, Lancs, to Mary Southworth, Westhead, Ormskirk.

DEATHS

STARKE.—On March 29, Mr. A. Bruce Starke, Sundridge, Chalkwell Esplanade, Westcliff-on-Sea, Essex, aged eighty. Mr. Starke was the founder and managing director of Bruce Starke & Co., Ltd., 5 Fenchurch Street, London, E.C.3. Although in recent years Mr. Starke had been confined to his home, he maintained a constant interest in the activities of the company.

BEATTIE. — Recently, Mr. John Beattie, M.P.S., 26 Bellyeoman Road, Dunfermline. Mr. Beattie, who qualified in 1932, trained in Dunfermline and went to Buckhaven, where he spent a number of years before returning to Dunfermline where he became superintendent pharmacist for Dunfermline Cooperative Society, Ltd. Mr. Beattie is survived by his wife, a son and three daughters.

CANDELENT. — On March 27, as the result of a road accident, Miss Madge K. Candelent, director of Tokalon, Ltd., Hanworth Lane, Chertsey, Surrey. Miss Candelent had been with the company for many years and during the past few years she had not only laid firm foundations for the future of the company, but had considerably expanded its fortunes.

MACKIE. — On March 27, Mr. George Mackie, M.P.S., 19 Wilfred Road, Ramsgate, and late of 27 Swanston Terrace, Edinburgh. Mr. Mackie qualified in 1911.

ROBERTS. — On March 31, Mr. Ernest Edward Roberts, M.P.S., 13 St. Julian's Avenue, Newport. Mr. Roberts qualified in 1909 and was formerly in business in Caerleon Road, Newport.

RUSTON.—On March 13, Mr. Albert Ruston, F.P.S., 49 Tressillian Road, London, S.E.4, aged eighty-four.

TURNER. — On March 19, Mr. Alfred William Turner, M.P.S., 14 Newerne Street, Lydney, Gloucestershire, aged eighty-five.

PERSONALITIES

MR. F. A. LAWMAN, M.P.S., Spring Lodge, Flookersbrook, Chester, has been transferred from the Chester Royal Infirmary where he has been since December 5, 1961, to convalesce at the Red Rocks nursing home, Hoylake, Ches, before returning home.

MR. CECIL JACOBS, Leicester, who was recently elected for Eastern Division 1, in the elections to the Executive Committee of the National Pharmaceutical Union (see *C. & D.*, March 31, p. 339), qualified in 1932 and has been in business as a proprietor pharmacist for twenty-seven years. Mr. Jacobs has been a member of the Leicester Pharmaceutical Committee since 1948, and is at present its vice-chairman. He also serves on its pharmaceutical services committee. For several years Mr. Jacobs has been chairman of the Leicester and Leicestershire Branch of the Photographic Dealers' Association. Among his many public activities he is a scientific intelligence officer connected with the Civil Defence for the City of Leicester, and a member of the joint committee of the Leicester chambers of commerce and of trade concerned with the city-centre redevelopment. For many years he has been chairman of the Castle Ward Branch of the South-west Leicester Conservative Association.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

FROM close contact with his inspectors, the Home Secretary was satisfied that the safeguards provided by the Cruelty to Animals Act, 1876, and the system of inspection carried out, were adequate to achieve the object of preventing unnecessary suffering without impeding useful research. MR. C. FLETCHER-COOKE (Joint Under Secretary of State, Home Department) provided that information in a written answer to MR. T. L. IREMONGER on March 29.

Half-day Closing Orders

MRS. J. S. BUTLER asked what consideration had been given to difficulties encountered both by traders and the public in relation to half-day closing orders, and what action was intended to revise present arrangements. MR. FLETCHER-COOKE, in a written reply on March 29, stated that a half-day closing order could be made only with the approval of the majority of shopkeepers affected, and steps could be taken for revocation of an order which no longer met with approval. On present information the Home Secretary was not convinced of the need for amending legislation.

Anti-smoking Clinics

MR. ENOCH POWELL (Minister of Health) informed SIR LEONARD ROPNER, in a written answer on March 29, that the possibility of setting up anti-smoking clinics experimentally was being considered. The advice of the Standing Medical and Mental Health Advisory Committees was being sought.

Hearing Aids

MR. C. MAPP asked the Minister of Health if he would adopt, following consultations with the appropriate deaf and hard-of-hearing associations and reputable manufacturers, basic standards of quality for hearing aids. MISS E. PITT in a written reply on April 2 stated "No."

N.H.S. Contributions

MR. W. ROSS, on April 2, asked for an estimate of the total amount to be collected by the National Health Service contributions in 1962-63. MR. J. BOYD-CARPENTER (Minister of Pensions and National Insurance) replied "£163 millions."

Lipstick Colouring Matter

MRS. J. S. BUTLER asked the Parliamentary Secretary for Science if he would ask the Department of Scientific and Industrial Research to refer the question of lipstick dyes and their possible effects on health to the British Industrial Biological Research Association for examination. MR. DENZIL FREETH (Parliamentary Secretary, Science), in a written reply on April 3, stated that the association planned to include in its programme basic research to establish whether a hazard existed from colouring matters used in lipsticks. It now operated an information service that was available to members of the association.

Purchase Tax

MR. A. LEWIS asked the Chancellor of the Exchequer if he was aware that although the 10 per cent. surcharge on purchase tax increased prices of many articles by fractions of a penny many firms increased the prices to the consumer by one penny, twopence or threepence or more per item. Would the Chancellor order an investigation with a view to introducing legislation to require the extra charges to be remitted to the Treasury. SIR EDWARD BOYLE (Financial Secretary, Treasury), in a written answer on April 3, refused to initiate an investigation, he stated that in general traders treated the surcharge like any other addition to their costs. He had seen no evidence that the situation had been exploited as had been suggested.

NEW PRODUCTS AND PACKS

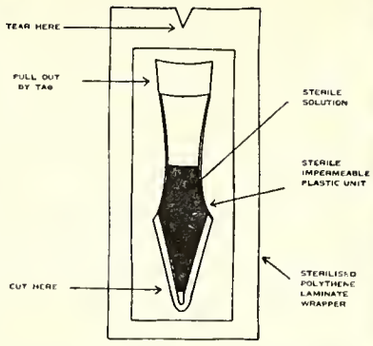
Oxyphencyclimine. — Pfizer, Ltd., Sandwich, Kent, announce that Daricon brand oxyphencyclimine hydrochloride is now available in bottle of 100 5-mgm. scored orange-coloured tablets. Daricon is described as a potent anticholinergic compound of value in the treatment of peptic ulcer, gastritis, pylorospasm, biliary-tract disease and functional bowel syndromes. A single dose provides 8 to 12 hours of continuous control of acid secretion and smooth muscle spasm.

Anabolic Agent. — Pharmethicals (London), Ltd., Victoria Way, Burgess Hill, Sussex, claim that their new speciality Primobolan depôt is the closest approach yet achieved to the ideal anabolic agent. The advantages claimed for it are high potency and absence of hormonal effects or liver impairment. Only one intramuscular injection depôt is required per fortnight. The product, chemically 1 methyl-$\triangle^1$-androstenolone oenanthate, is presented in packs of one, three and twenty 1-mil ampoules each containing 100 mgm.

With Promazine.—Geigy Pharmaceutical Co., Ltd., Roundthorn Estate, Wythenshawe, Manchester, 23, have introduced a new speciality Tofranil with promazine. Available in pale yellow capsules each containing 25 mgm. of Tofranil and 50 mgm. of promazine hydrochloride, the product combines the thymoleptic action of Tofranil with the tranquillising properties of promazine hydrochloride. It is indicated in the treatment of depressive states in which agitation and/or anxiety are particularly troublesome. The packs are containers of fifty, 200 and 1,000 capsules.

Mastitis Treatment.—CIBA Laboratories, Ltd., Horsham, Sussex, announce the introduction of a new treatment for mastitis under the name Vetisulid. The product, which results from research in the company's laboratories, is understood to have a wide bacterial range and to be particularly effective against the organism associated with mastitis. It is claimed well tolerated both locally and chemically, and is available in plastic "concertina" pack containing one 30-mil dose of the 5 per cent. suspension. The cost of treatment is understood to be reasonable, and milk from treated animals may be sold twenty-four hours after administration of the last dose. Vetisulid is available in carton containing six single-dose packs. It is intended to be sold only to veterinary surgeons or to meet their prescriptions.

Disposable Eye Drops. — Smith & Nephew Pharmaceuticals, Ltd., Bessemer Road, Welwyn Garden City, Herts, announce the introduction, under the name Minims, of sterile eye drops in single-dose disposable applicators. Each Minims unit contains enough solution for one ophthalmic examination. The drops are presented in a pliable, impermeable, plastic dropper sealed in an outer envelope that ensures complete sterility of the dropper. Minims are packed in tins of twenty. Most of the common diagnostic agents are available in Minims, including atropine, homatropine, scopolamine, pilocarpine, eserine, tetracaine, fluorescein and fluorescein (cotton-tipped).





Blackcurrant and Rose-hip Pastilles. —Heath & Heather, Ltd., St. Albans, Herts, have introduced a new product, blackcurrant and rose-hip pastilles (C77) in outer of twelve cartons.

Anti-smoking Pill. — British Chemotheutic Products, Ltd., Kemtheutic House, Grant Street, Bradford, 3, have launched a new anti-smoking pill, Cigenda, claimed to help stop the craving for cigarettes. Each Cigenda pill contains 2 mgm. of lobeline hydrochloride in a specially processed base.

Additions to the Range.—The Airwick range of aerosol products has been widened to include an air freshener (Springtime mist) and greenfly killer. The manufacturers are Airwick, Ltd., Slough, Bucks.

Treble-size Can. — Goya, Ltd., 161 New Bond Street, London, W.1, have launched a treble-size can of Goya Spray Set with free refillable handbag spray.

A "NEW DEVELOPMENT" IN SKIN CARE

"Creams without grease" in a novel container

THREE new cleansing, nourishing and toning "Ice Dews" by Lentheric, Ltd., 17 Old Bond Street, London, W.1, on the market in June, are creams without any extraneous fatty materials to mask the beneficial effect of the active ingredients in direct contact with the skin. For dry or sensitive skins "nourishing Ice Dew" may be used by day under make-up as well as by night. The "Ice Dews" are described as being, not "creams" in the accepted sense, but tinted translucent gels presented in pale turquoise jars and sealed with an inner lid. The clear band at the top of the jar is turned so that just enough "Ice Dew" comes out of a central hole. If too much comes through, the screw is reversed and the surplus returns to the bulk below the cover. The products are claimed as a new development in the history of skin-care products, presenting the active constituents with nothing to mask their effects.

They are also differently used. The cool, light touch of "Ice Dew" is strange at first, the moisture evaporating within a few moments. The "Ice Dews" are understood to suit all skin types, with a simplified technique that varies according to the type of skin. "Cleansing Ice Dew" (rose-pink) removes make-up and cleans the face. It contains a special new "built-in" wetting agent with exceptional emulsifying and moisturising properties.

For Regular Use

"Nourishing Ice Dew" (pale gold) is stated to "stimulate natural cellular activity and enable emollient and nourishing oils to get in closest contact with the skin, giving maximum effect, without leaving any sticky film." Concentrated, it is economical in use, and should be used regularly.

"Toning Ice Dew" (clear translucent turquoise) is a skin stimulant that replaces a liquid lotion or tonic rather than a cream, so has the further advantage that it does not spill, may be applied on the fingertips and is safely packed for travel.



NEW PRODUCTS IN NOVEL CONTAINER: "Toning Ice Dew," one of a trio of new cosmetic products by Lentheric, Ltd., London, W.1, shown (left) as carton and container; (centre) turned to deliver the required quantity through an opening in the cover, and (right) with the surplus retracted into the jar by a reverse turn with the fingers.

TRADE NOTES

A 2-mil Pack.—Upjohn, Ltd., Fleming Way, Crawley, Sussex, have introduced a 2-mil pack of their speciality Depo-Medrone, and the pack is being made available through all wholesalers.

"Indelible, Creamy and Lustrous."—Kitien, Continental lipstick is claimed by the importers, Abbey Parfumerie Co., Ltd., 7 Oxford Circus Avenue, London, W.1, to be indelible yet creamy and lustrous. Swiss-made, Kitien colour is understood to cling without drying the lips.

A 500-mil Size.—The Distillers Co. (Biochemicals), Ltd., The Broadway, Wimbledon, London, S.W.19, announce the introduction of an additional pack size of Orastrep suspension of streptomycin, sulphadimidine and kaolin for the treatment of bacterial infections of the intestine. The new pack is a 500-mil bottle.

Now Tax Free.—MERCK SHARP & DOHME, LTD., Hoddesdon, Herts, advise that their speciality Striatran (emylcamate) is now exempt from purchase tax.—G. D. SEARLE & CO., LTD., High Wycombe, Bucks, state that Serenace brand of haloperidol (the Searle anti-psychotic compound introduced in September 1961) is now free from purchase tax.

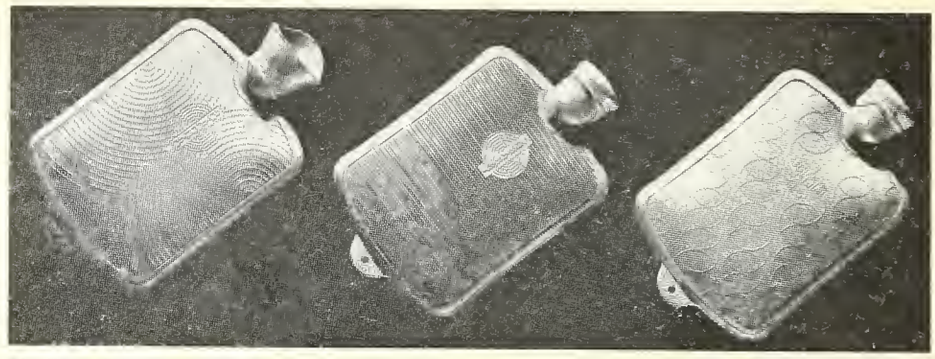
Sole Distributors.—William Martindale Wholesale, Ltd., 14 Bruton Place, New Bond Street, London, W.1, have been appointed by Henry C. Stephens, Ltd., Gillespie Road, London, N.5, sole distributors in the United Kingdom and Northern Ireland for their tar remover. Sold on display eard of twelve tubes, product is claimed to get rid of tar and beach oil from the skin.

U.S. Trade-Center Symbol. — The United States Trade Center in London, 57 St. James's Street, S.W.1, is incorporating into advertisements, print work and stationery connected with the activities of the Center the symbol illustrated. The symbol will be used by other Centers.



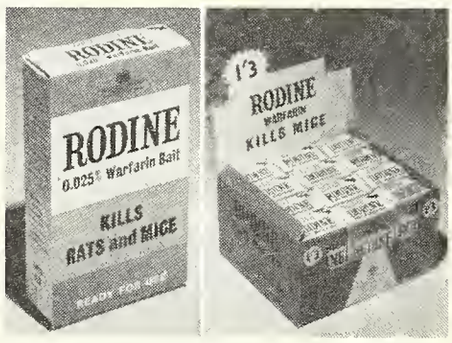
Thermometer Markings. — To meet popular demand S. Brannan & Sons, Ltd., Cumberland Thermometer Works, Cleator Moor, Cumberland, have made available with combined centigrade and fahrenheit scales all Brannan thermometers covering air temperature ranges. Other thermometers manufactured by the company can be supplied with centigrade scale as an alternative. Free conversion charts are available from the manufacturers to enable the existing fahrenheit readings to be converted into centigrade equivalents.

Distribution from Leicester. — The wholesale distribution section of Dalmas, Ltd., Weymouth Street, Leicester, is being taken over by Jaynox, Ltd., Stoke-on-Trent. In order to differentiate the new depôt from those of Jaynox, Ltd., Jaynox Works, Longton, Stoke-on-Trent, and John Knox (Midland), Ltd., Birmingham, the branch is being known as the Dalnox depôt. It will continue under the management of Mr. A. McQueen. Messrs. Dalmas are concentrating upon the manufacture and distribution of their own proprietary products.



The Bara, Suba Ray and Suba Star hot-water bottles of William Freeman & Co., Ltd.

Booklet for Fruit Growers. — A new edition of the Murphy fruit grower's booklet contains the latest recommendations of the Murphy Chemical Co., Ltd., Wheathampstead, St. Albans, Herts, for the control of pests and diseases with the company's range of chemicals, which now includes Murfotox liquid (80 per cent.) for pre-blossom aphid control and Kelthane 20 for control of phosphorus-resistant strains of red spider.



PACK AND OUTER: Recently modernised carton of Rodine warfarin bait and display outer of 1 doz. Makers: Rentokil Laboratories, Ltd. (products division), Leatherhead, Surrey.

Window Display Competition.—Cash prizes amounting to £682 10s. are being offered by Morny of Regent Street (Morny, Ltd.), for window displays of their French Fern range (soap, bath luxuries and perfumes). Entrants are required to mount the display for not less than one continuous week during the period April 30 to June 16. The emphasis is on elegance. The competition covers two categories of stockists: (a) Department stores with full-time display staff; and (b) others. In category B the display may, if desired, occupy only a section of the window, but should be clearly isolated from other displays in the window. Showcards and posters on the French Fern theme are obtainable. In each category the first prize is £105; second £78 15s.; third £52 10s. There are ten consolation prizes each of £10 10s. The panel of judges includes Mr. Tom Reid (a past-president of the Pharmaceutical Society). Entrants must submit a black-and-white photograph of their display, preferably not smaller than 6½ x 8 in. (whole plate). The competition entry form must be completed and gummed to the back of the photograph before being submitted. Entries must reach the company's sales manager at 201 Regent Street, London, W.1, not later than last post Friday, June 22.

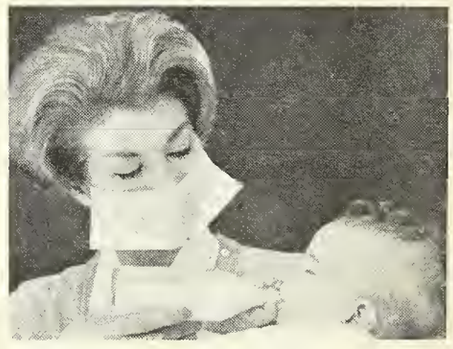
"High-profit" Hot-water Bottles.—A special "high-profit" group of hot-water bottles has been produced by William Freeman & Co., Ltd., Staincross, Barnsley. The three bottles in the group have been chosen for their record of fast, repeatable sales. All are made to British Standards Specification 1970. They are the Suba Star, with unique Suba-Seal leak-proof, loss-proof, safety seal, non-ribbed for maximum heat dispersion; the Suba Ray, with Suba Seal closure, in half-ribbed design; and the Bara, described as "a top-quality bottle with the conventional screw closure." The makers believe that the trio will go far towards satisfying a growing demand from the trade for quality hot-water bottles allowing both wholesaler and retailer maximum flexibility within the price range.

Bonus Offers

E. H. BUTLER & SON, LTD., 5 Brunswick Street, Leicester. Erytex ointment and A.A. ointment. Twelve invoiced as eleven in new-style display outer of 1 doz. Until May 31. Five per cent. display discount on order for 3 doz.

GLAXO LABORATORIES, LTD., Greenford, Middlesex. Glucodin and Farex. Bonus terms continue until April 14 and not as previously stated.

EDWARD TAYLOR, LTD., Monton, Eccles, Manchester. Flexoplast dressings. Additional 5 per cent. display discount. Until June 30.



PROTECTION FOR BABY: Golden Babe disposable masks, made by Lilia-White, Ltd., Bessemer Road, Welwyn Garden City, Herts (see *C. & D.*, February 17, p. 168), are offered as a means of preventing mothers from passing cold or 'flu germs to their babies when feeding or handling them.

INFORMATION WANTED

The Editor would appreciate information about:

Dentine chewing gum
Cabrygeol
Longlets tablets
Dr. Saucrrbruch's cosmetic cream

Branch Discussions on "the Report"

PHARMACEUTICAL SOCIETY MEMBERS EXPRESS THEIR VIEWS

SINCE the report of the Committee on the General Practice of Pharmacy was presented at the second professional session of the British Pharmaceutical Conference, Portsmouth, 1961, it has been the subject of discussion at branch meetings throughout the country, among them the following:—

EAST METROPOLITAN: MR. P. G. FLOOD (a member of Council) was present, Mrs. C. R. Stein (chairman) presided, and Mr. H. L. Crossley (secretary) summarised conclusions reached at previous local meetings in various parts of the Branch area. There had been, he said, no major dissensions from the recommendations. It had been emphasised that there should be some control over adequacy of premises, whether by Society inspectors or by other pharmacists. Joint Industrial Council awards had been criticised as the basis on which the Government calculated costs of contractors. Some body should draw up a more realistic list of wages. The Society had been held not to have a broad enough scope at present. More publicity relating to the status of pharmacists would be welcomed. Trained "assistants in dispensing" had been welcomed. Views had varied on after hours dispensing, which some pharmacists were already providing. Control over dispensing doctors had been called for. Adequate remuneration from N.H.S. had been declared an essential condition before contractors could be expected to work in the highest traditions of their calling. There had been no objection to displaying dispensing apparatus in windows.

MR. FLOOD welcomed the Branch's views on assistants in dispensing, declaring that control of dispensing doctors was impracticable, and said that at present the Society could not apply the paragraph on the registration of premises.

Premises Control

During the discussion it became clear that members wished the Society to have greater legal powers of control over the adequacy of premises. Mr. Flood said that would require legislation. MR. WORBY suggested that a plebiscite taken at the time fees were collected could strengthen the Society's hand, and Mr. Flood said that that was a point worth looking into. Mr. Flood was unable to give an answer that satisfied the secretary on a question about the time taken to organise a special meeting requested by two branches in accordance with the by-laws. Mr. Flood was willing to support "everything that raised the status of pharmacy" but was strongly against any pharmacist having an interest in a drug store.

THAMES VALLEY: MR. NORMAN JEFFERY (a member of the Association's committee), in introducing the report, described the subjects of each group of paragraphs.

In the discussion that followed, MR. H. G. MOSS was in favour of the aim and object of the report, but complained that the document was not as practical or realistic as it might be. The Society could implement the report more easily if the situation in Great Britain were different. British pharmacy differed from Continental practice in that there was virtually only one customer for pharmaceutical services, namely the Ministry of Health. It was necessary, therefore, under those conditions for pharmaceutical practice to be as broadly based as possible. Mr. Moss criticised the window display requirements of paragraph 64, which he interpreted as meaning that 50 per cent. of space must be pharmaceutical. He declared that to be neither realistic nor practicable.

MR. THOMAS, while not agreeing on Mr. Moss's interpretation that only 50 per cent. of space should be devoted to pharmacy proper, but did not think pharmacy should be so circumscribed.

Private Prescriptions Tariff

MR. NELSON queried the clause in the recommendations (b)—about the giving of advice — and wondered what the attitude of the medical profession was to that. He agreed with Mr. Moss about pharmacists' dependence upon the Ministry of Health, and suggested that a general tariff of private prescription prices be formulated quickly.

MR. WADSLEY agreed that the giving of advice was not a pharmaceutical function, but MR. HARVEY interpreted the clause as meaning what it said "Giving information and advice relevant to supply" and thought it in order.

MR. MOSS made the point that the public could only expect the kind of service for which it was prepared to pay. The 12½ per cent. oncost would certainly not cover the provision of a twenty-four-hour service. MR. JAMES thought the only way for a twenty-four-hour or out-of-hours service was from a paid service at a central depôt. On the recommendation concerning the authority of pharmaceutical superintendents, MR. MOSS queried its practicability in respect of a business run by a widow with a manager as superintendent. On the recommendation on the appointment of branch managers MR. EVANS remarked that managers needed no formal appointment at the moment and it seemed that, in order to implement the recommendation, a "forcible change in the law" would be required.

The recommendation on the registration of premises was regarded by MR. MOSS as "very important." MR. LAWSON agreed and said that a way to implement it was to give more power to the Society's inspectorate. MR. EVANS suggested the inspector could tender a report which could then be acted upon by a body of local or adjacent pharmacists.

The recommendation prohibiting the advertising of pharmaceutical services was felt to press unduly hard upon the individual pharmacist as compared with the manufacturers. It was proposed by MR. JAMES, and carried, that the words "or goods" should be deleted from the recommendation. MR. BACON thought that no medicines should be displayed at all in the windows of pharmacies. The meeting thought that restricted titles should be permissible in business names. MR. JAMES thought it wrong for the Apothecaries' Hall certification to be recognised in any way, because holders were not under the control of the Society. MR. NELSON agreed and thought that the Society should have its own register of assistants. MR. N. DEWEY thought an example could be found in Ireland, where two qualifications existed and the arrangement worked well. MR. MOSS said that the introduction of an unqualified register would be detrimental. The danger was greater now than in 1952, when the matter first came under discussion.

On the proposition of MR. LAWSON, seconded by MR. CURD, the meeting resolved that a special Branch Representatives' meeting should be called to discuss the recommendations.

PLYMOUTH: MR. T. REID (immediate past-president of the Society) introduced the report and answered members' questions. He stressed that the report had yet to be considered by the Council, and that the views he expressed were his own.

Difficulties in Departmentalising

During the discussion, MR. E. C. BURROWS stated that it was easy for multiples and large establishments to departmentalise but not so easy for the small man, whose livelihood depended on other things than dispensing to make professional work economic. He considered that extra lines stocked by the pharmacist did not detract from his professional standing. MR. REID pointed out that the report stated clearly that, whilst there were other goods and services traditionally associated with pharmacy, the professional aspect should be predominant. However, where goods and services other than the professional and those traditionally associated with pharmacy were offered, they should be clearly departmentalised. MR. BURROWS also believed that in order to make the pharmacist more professional, the Council should endeavour to restrict the supply of all pharmaceutical preparations to pharmacists. MR. REID said the evidence submitted by the Pharmaceutical Society to the working party on medicines legislation urged that, in the public interest, the preparation and distribution of medicines should, in general, be in the hands of qualified persons.

MR. G. C. TRASK considered that, given proper reward for dispensing under the National Health Service, pharmacists would be encouraged to discard activities that were not wholly professional or traditional. There was a danger, if they were to rely increasingly

upon N.H.S. dispensing, of finding themselves entirely at the mercy of the Ministry. MR. REID said the real danger was that, if pharmacists did not raise their professional standards, they could never command a professional fee. In the past, pharmacists had suffered from something of an inferiority complex, especially in contacts with the medical profession.

MR. BURROWS maintained that one large multiple, despite what it sold, seemed to have successfully projected in the public mind that they were pharmaceutical chemists.

Promoting Co-operation

It was generally agreed that implementation of the report would strengthen the position of manager and superintendent chemists. On the economic aspects of the proposals MR. C. E. UNDERHILL welcomed the idea of partnership, co-ordination and linking together of pharmacists in any way. Doctors had done that to their great advantage by forming group partnerships in order to share the burden. MR. REID welcomed that view. He cited one instance where five pharmacists had combined to employ a sixth pharmacist thus ensuring freedom from locum worries during illness and holidays, as well as being able to work a five-day week. There were a number of groups who joined together to buy on better terms. In Birkenhead, Birmingham and Sheffield co-operation had gone even further in the provision of mutually owned pharmacies giving a full service until 10 p.m. daily. MR. REID thought that, in each community, there should be a scheme for the provision of urgent medicines at any hour of the day or night.

MR. R. J. WADGE wanted to know whether it would be beneficial to have limitation of pharmacies. MR. REID considered that there was no possibility of that by legislation. Before the Health Service the suggestion had been made that no new contract should be permitted unless a need was shown, but the then Minister of Health had opposed the suggestion. There was a small but steady reduction in the number of pharmacies each year. Economic factors and the ability to give an efficient service favoured amalgamations and was preferable to imposed limitation. He could see no present-day justification for wholesale counter prescribing. The function of the pharmacist was not to diagnose except possibly for simple ailments. In all appropriate cases the patient should be referred to the doctor and that, in the long run, enhanced the reputation of the pharmacist.

(To be continued)

U.K. PENICILLIN PRODUCTION

THE figures for penicillin production in the years from 1955 onwards are set out below. No information is available, so far as is known, for the years before '55.

WEEKLY AVERAGE IN THOUSAND MEGA UNITS

1955 .. 2,379	1959 .. 3,660
1956 .. 2,961	1960 .. 3,718
1957 .. 3,918	1961 .. 5,186
1958 .. 3,661	(Based on eleven months' figures)

GUILD OF PUBLIC PHARMACISTS

Branch capitation fees increased

THE Council of the Guild of Public Pharmacists at a meeting on March 24 decided to increase capitation fees for branches with effect from January 1, 1962, rule 24 permitting that adjustment without either alteration to the rules or reference to the annual meeting. In accordance with the resolutions passed at the branch delegates' meeting, a fee of 10s. for each of the first twenty members and 5s. for each of the remaining members is now to be paid.

It was reported that the salaries committee had decided not to recommend the employment of counsel at the Industrial Court when the salaries claim came for arbitration.

An announcement about increased London weighting allowances was expected shortly as the administrative and clerical claim (1961) had now been arbitrated.

The council approved the unanimous recommendation of the Geigy Fellowship Committee that the Geigy Travelling Fellowship for 1962 should be awarded to Mr. E. R. Tallett who is chief pharmacist at Burnley General hospital.

The Planning Committee reported that a work-study investigation had been carried out at the pharmacy of a psychiatric hospital by a firm of consulting engineers. The pharmacist concerned had been interviewed, and the committee had studied the report of the investigation. The committee regarded that as unsatisfactory and recommended that, when work-study investigations were undertaken, they should, in general, be restricted to layout and purely mechanical processes, and should exclude the professional work of the pharmacist.

NORTHERN IRELAND HEALTH BOARD

March meeting in Belfast

A SERVICES Committee recommendation that a guinea be recovered from a chemist against whom the Northern Ireland General Health Services Board had complained that drugs dispensed by him were not in accordance with a test prescription was adopted at the March meeting of the Board in Belfast.

The chemist stated that the prescription had been presented at his shop when he was at home the day after returning from a holiday. His staff had informed him by telephone that the Board's agent was in the shop and that everything was in order. The chemist added that he was unaware of the error of his locum but that he himself had provided pharmaceutical services under the Health Services Scheme for nine years and had purchased and converted his pharmacy at a cost of £10,000. He felt he was a most conscientious contractor.

THE SECRETARY explained that the Board were in contractual relationship with the chemist and not his locum tenens and they must hold the contractor responsible for the dispensing.

It was reported that when the Board went into committee at its previous meeting it had considered and, on the motion of MR. W. H. BOYD, seconded by MR. H. W. GAMBLE, approved an application dated February 23 for permission to withdraw from the Board's Pharmaceutical List at short notice on March 3, 1962.

The Finance and General Purposes Committee presented accounts totalling £295,382 for pharmaceutical services for payment at March 31.

Supplying Gauze Tissue

The Medical Advisory Committee minutes contained a report of the Secretary's submission of a note by the Pharmaceutical Officer pointing out that the chemist must supply gauze and cotton tissue of B.P.C. quality when gauze and cotton tissue was ordered. A cheaper quality available, if supplied by the chemist, would constitute a wrongful act on the part of the chemist. Bad or prolonged storage could affect all dressings but that would not be the fault of the manufacturer.

DR. CRONHELM said drugs should play a larger part than appliances in test prescriptions. THE SECRETARY explained that this was already so.

In the same minutes it was reported that DR. WRIGHT suggested that chemists' rota cards be reprinted. The Secretary stated that he understood this was being done.

Emergency Oxygen Supplies

The Drug Pricing Committee reported that MR. BOYD had said that most chemists found the stocking of oxygen cylinders to be uneconomic unless they had a monopoly of the oxygen supplies in their areas. After discussion the Committee agreed that an approach be made by the Board to the Northern Ireland Hospitals Authority and the British Oxygen Co., Ltd., in an endeavour to arrange stocks of oxygen cylinders in a number of areas for use in emergency.

THE ASSISTANT SECRETARY submitted circular HMC 116/61. "Economy in Prescribing and Issue of Drugs to Patients" issued by the Hospitals Authority to all hospital management committees and which placed emphasis on the necessity for the provision of suitable containers for drugs issued by hospitals to patients discharged from hospitals. The Committee noted the circular.

THE PHARMACEUTICAL OFFICER submitted a letter from the Ministry accepting the Board's draft scheme for dealing with broken bulk claims and explained that the Local Pharmaceutical Committee had approved its inception. The Committee considered and approved the draft of an explanatory circular for issue to all chemists on the Board's Pharmaceutical List. The Committee agreed that straightforward claims be dealt with by the Pharmaceutical Officer and that the scheme be reviewed after three months after its inception on April 1.

A Novel Approach to Packaging

"REACTIONARY PRINCIPLES" AT A.B.C.M. CONFERENCE

"PACKAGING tends to be designed as a compromise between various conflicting requirements," Mr. G. W. Hemy (sales director, Joseph Crosfield & Sons, Ltd.) told the 130 representatives of the chemical, packaging and transport industries attending the Association of British Chemical Manufacturers' third packaging conference at Harrogate, March 26–29.

Mr. Henry said that, although raw materials generally suffered less deterioration than finished products during transit, and present-day transport methods were directed more towards moving goods safely than to preserving their condition, the consumer paid highest regard to the appearance of a product and to knowing that it would continue to reach him regularly, as and when he required it. "Therefore," said the speaker, "I suggest that our priorities in designing a package are, first, that it is intact on arrival; second, that it should be in the most economical form for transport; third, that it should be cheap; and fourth, that it should possess qualities pleasing to the consumer."

The End of Transit Packs ?

To accomplish those aims he suggested an approach that not only justified the challenging title of his paper—"Some Reactionary Commercial Principles" — but also cut deeply across much current company policy among all three sectors of his audience. "First of all I believe that consumer packaging must be done as near the consumer as possible. I accept that this may necessitate a temporary package for moving products in bulk to a small depôt where the final packaging will take place. I don't believe that, in the long run, we can expect packaging to perform a dual rôle of protecting the goods during transit and giving satisfaction to the consumer on arrival. This transit packing must be reduced to an absolute minimum, or even eliminated."

Among his novel suggestions for remodelling transport facilities were a pipeline network that could be used for gases, liquids and fluidised solids.

In reply to the conference chairman (Mr. G. H. Edwards, packaging adviser to Unilever, Ltd.), Mr. Hemy maintained that within the next twenty years British exporters would reorganise their packaging policies so that they exported in bulk and repacked in the receiving country.

Summing up, Mr. J. A. McMullen (transport officer, Imperial Chemical Industries, Ltd.) observed that each manner of transport had its own level of cost. Bulk movement over water, being the cheapest method, could enable the United Kingdom to compete in the European market with Continental manufacturers, who were often faced with long-distance overland carriage costs.

"The challenge of European Trade to the British Chemical Industry" was presented in a paper by Mr. M. J. C. Hutton-Wilson (Associated Chemical Industries, Ltd., and vice-chairman of A.B.C.M.). He indicated the benefits of being "near to markets with immense consumer potential." Although the chemical industry was the third largest exporting industry in Britain, and had increased its exports by about 125 per cent. over the past two decades, during the same period its share of world trade had declined progressively from 19·3 per cent. in 1938 to 15 per cent. in 1959. Exports to members of the European Economic Community amounted to about £100 millions a year, out of a total European trade in chemicals of £750 millions.

Mr. Hutton-Wilson emphasised that a close relationship between seller and customer must be fostered in all seventeen countries of Western Europe—"each with their own customs, traditional buying procedures, restrictions and national characteristics." He warned that the constant and increasing demands for research and capital expenditure within the chemical industry "may well not be forthcoming" if its domestic structure were allowed to crumble through the dumping of foreign chemicals.

More specific problems encountered in packaging for export had already been outlined by Mr. E. O. Rounsefell, as briefly reported previously (*C. & D.*, March 31, p. 339). Discussion of Mr. Rounsefell's paper brought praise for the A.B.C.M. recommended label, and a feeling that performance tests might be as valuable as predetermined specifications in maintaining the efficacy of packages. It was suggested that overpacking was an unnecessary expenditure, and that in many cases it might be more profitable to allow for a small percentage of damaged goods, which could be replaced at their destination.

Hints from Abroad

Mr. Edwards suggested, during his summing up of the proceedings, that British manufacturers should not rely solely on their own ideas with regard to packs, but should investigate the best Continental ones as well. Makers and users of packages must, he added, consult and support one another. A similar plea was voiced on behalf of the Transport Commission by its commercial director (Mr. L. H. Williams), who was principal guest at the conference dinner. Mr. Williams said "from my own experience" that chemical manufacturers knew well in advance of production which articles required special packaging. He urged that they should inform British Railways experts of potential transit hazards as early as possible.

The conference concluded with the passing of the following resolution:—

> "This Conference, believing that the European Common Market involves an extension of the home market, is of the opinion that one of the major problems confronting British industry will be the need to compete on equal terms in ensuring the delivery of our products everywhere promptly, safely and at minimum cost. Accordingly, it recommends that urgent action should be taken by the Association, preferably in co-operation with other industries, to investigate this problem."

Discussion Groups

During the conference a number of discussion groups met in order to exchange information on specific trends and problems in packaging for chemicals. The following are summaries of particular points raised:—

Sacks. It appeared that the multiwall paper sack was firmly established as the standard package for general chemicals. Attention was drawn to the need for the development of a cheap inner lining to a sack to enable products to be packed at 130-140° C. Nylon film was suggested for the purpose, as were methods for cooling the sack at the time of cooling. Those ideas would only become practical if the cost was less than the alternatives of a metal drum or cooling of the product before packing.

Drums. Reference was made to recent developments in tinplate drums, which had made possible a saving in cost of about 30 per cent. There were differences of opinion on cutting the costs of steel drums by making them returnable. Good experience was reported with fibreboard drums, though two problems were mentioned in their use—the need to improve weathering properties, and mishandling of them at the docks.

Plastics containers. Failures of plastic sacks were reported, which appeared mainly on account of rupture of heat seals. There was a general requirement for light transparent sample bottles acceptable to the Post Office. Polyvinyl chloride and polystyrene were said to be unsatisfactory chemically. Polymer manufacturers were asked to investigate the formulation of anti-static agents to prevent packages collecting dust. Reinforced plastics and intermediate bulk containers were also discussed.

Fine Chemicals Packages. A problem discussed but not completely solved was how to pack into a plastic envelope a fine powder that interfered with heat sealing. An outside seal, or alternatively tableting of the powder, were two suggestions. It was thought that, rather than seek the "perfect" package before marketing a product, a manufacturer would be saved capital by using an "adequate" one, which he could improve later if necessary. No means was devised for packaging an organic chloride that softened PVC, stress-cracked polythene, was lachrymatory, corroded mild steel, affected stainless steel and, because it froze below 28° C. (and expanded in the process), cracked glass bottles. It was suggested that PVF-coated steel might prove satisfactory.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Branch Bulletins

SIR, — Several of the Society's Branches are now publishing bulletins and my own, the West Kent, is one of them. These bulletins are a stimulating source of information and new ideas. I see a number of them already, on an exchange basis, but would be pleased to hear from other editors.

B. M. RUSLING,
96 Kent House Road,
Beckenham, Kent

Joining in a Protest

SIR,—With reference to correspondence concerning the reduction of prices of the antibiotics of Messrs. Lederle and Pfizer, I wrote protesting about this to both firms. From Messrs. Lederle I received a high-handed letter disclaiming all responsibility, but I did receive a more co-operative letter from Messrs. Pfizer. At the same time I would like to join with others in protesting at the course taken by these two firms.

A. C. WITHERS,
Clacton-on-Sea

Separate Accounts

SIR,—The letter from Mr. Mervyn Madge which was published in your issue of March 24 (p. 323) may have been missed by some of your readers who had separate accounts for their "surgical" prescriptions. I have now been informed that an error has been made and that any company will have its prescriptions priced separately and any underpayments made good. This incident shows how essential it is that we choose our very best negotiators.

E. C. BURROWS,
Plymouth

Cut Prices

SIR, — I hope those retailers who have purchased the bonus parcel of Night Tan reconsider whether they should support a company which may well be acting to bring pharmacy to its knees. I refer to Lewis & Burrows, Ltd., who have a number of shops throughout London and are now blatantly price cutting lines which up till now have only been cut by grocers. As well as these they are cutting a number of the County Laboratories' products. In any case I feel that this can be considered by the Pharmaceutical Society as unethical and being an inducement to place dispensing.

D. SHARPE,
London, N.W.6

Public Resentment

SIR,—I wonder if the Government is aware of the possible effects upon votes of Mr. Enoch Powell's activities during the past twelve months? Public resentment at the 2s. charge per prescription was far stronger and more deeply seated than even we, the pharmacists, expected. It now only needs the closure of uneconomic pharmacies due to the effects of his policy on pharmacists' profit and we may well have a situation where the resentment of the young married couples against this Government reaches boiling point. Recent election reverses must have given the Government something to think about. As a supporter of the Conservative Party may I suggest that this is a good moment to point out to our leaders the following facts:—

(a) The National Health Service has come to be regarded by the citizens of this country as a precious possession not to be played about with by anybody. It affects the private life of the family more than any other single thing, and the attempts of any Government to destroy it may well be fatal in labelling that Government as anti-Health Service.

(b) The pharmacists of this country have been asked to accept measures during the past twelve months which have first reduced N.H.S. turnover by approximately 30 per cent. and secondly reduced their profit thereon by up to 11 per cent. Is there any industry that could possibly survive such severe measures?

(c) The pharmacists of this country, as behoves professional men with responsibilities, have been most patient. The threatened notice of withdrawal was called off for reasons which some pharmacists feel were mistaken. The Ministry of Health should know that, when the full implications of those reductions of turnover and profit are felt, particularly by the private individual pharmacist, he may well be so incensed as to put aside his previous inhibitions and take drastic action. It is suggested in all seriousness that such action between now and the General Election could be disastrous for the Government.

We are all in the same boat as a result of Mr. Powell's new measures, and I respectfully suggest to my colleagues throughout the country that one positive action they can take immediately to improve our terms of service is to write a letter to their Member of Parliament on the lines of this one and so add tremendous impact to our present public relations campaign.

W. M. DARLING,
South Shields

Manufacturers' Responsibilities

SIR,—I write to comment on your editorial (February 3, p. 119). Surely it is because some of the toxic effects of a drug may not be recognised for a long period of time that the *Lancet* advised doctors to be cautious in the use of a new drug. My own teaching to students is that they should not use any new drug until it has been clearly demonstrated that it has some advantage over existing remedies. The difficulty that faces a doctor who accepts this teaching is that there is seldom any acceptable evidence available on the merit of a new drug or preparation compared with existing drugs when the new drug is marketed. By acceptable evidence I mean therapeutic trials properly planned to demonstrate the presence or absence of such an advantage. As your editorial implies, all reliable firms carry out exhaustive animal toxicity tests on drugs before they are marketed, although the details of references reporting such tests are seldom quoted in the firms' literature. Most firms also arrange for extensive clinical trials of a new drug before it is marketed, but it is rare for those trials to be properly controlled therapeutic trials, and in the absence of such trials it is usually impossible to assess the relative value of a new drug. I think the *Lancet* is correct in demanding that such controlled clinical trials should be done before new drugs are marketed. I believe that yet another safeguard is needed after a properly planned control trial has shown that a new drug or preparation has real advantages; initial use of the new drug should be carefully supervised for a period of 9-12 months. In this way toxic effects undetected by animal toxicity tests and of a sort unlikely to be seen during therapeutic trials, which usually have to be carried out on a small scale and over a relatively short period of time, may be detected. The comment in the last paragraph of your editorial is ingenuous. The Cohen Committee is a body of experienced men who have placed before them extensive information about new preparations. It would certainly help doctors if the Cohen Committee's classification of new preparations was included in every advertisement, because they would then know whether the Cohen Committee thought that the drug had been proved to be of value or whether in their view it had not been proved of therapeutic value.

O. L. WADE, M.D., M.R.C.P.,
Department of Therapeutics and Pharmacology, Belfast University

Votes Acknowledged

SIR,—May I through the medium of your coloumns say how much I appreciate the renewed confidence shown by National Pharmaceutical Union members in my re-election to the Executive Committee. As in the past, I shall continue to devote my time and energies to the interests of N.P.U. members, whether they be sole proprietors or those with branch shops, for we are all private pharmacists closely associated with its day-to-day problems and with a personal vested interest in the prosperity of our calling. I am proud to be able to continue serving in such a cause. I would therefore express my thanks to all those members who accorded me their vote.

H. G. MOSS,
Feltham, Middlesex

PRESCRIPTION SOLUTION

THE prescription reproduced last week (p. 356) was for "Tabs. Fersamal. Mitte 60."

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at
28 Essex Street, Strand, London, W.C.2

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

Control of Mobile Trading

A NEW move to bring mobile traders within the scope of the shop opening and closing law by means of a licensing system is to be made by associations representing local authorities in all parts of the country.

Preliminary steps were decided at a recent meeting in London of representatives of the associations of county councils, municipal corporations, urban district councils and rural district councils. The meeting considered first how best to overcome "the present unsatisfactory situation" in which the proprietors of mobile shops were able to operate without regard to the provisions of the Shops Acts (in particular those which placed restrictions on the days and hours of opening), "thus obtaining an unfair advantage over ordinary shopkeepers." Reference was made, in this connection, to a divisional court decision in which it was held that the piece of ground on which a mobile shop was parked was not a place at which the owner was carrying on a retail trade or business within the meaning of section 58 of the Shops Act, 1950. A number of local authorities had subsequently strongly represented to their respective associations that the Shops Act ought to be amended to extend to retail trade carried on from mobile conveyances.

The meeting was disposed to share the view, which had been expressed by the Home Office, that it would not be practicable, by means of a simple amendment of the law, to bring mobile shops within the purview of the Shops Acts. The objective could be achieved only by a thorough-going revision of those Acts. It was suggested (though on this there was no general agreement) that merely to redefine "shop" to include mobile shops might, by giving them a measure of legality, lead to a great increase in their numbers.

The meeting recognised that, in towns, but particularly in the country, mobile traders could and did provide a useful service; and that it was not the existence of mobile traders as such, but rather their method of operation which caused concern. It was felt they should be required to maintain standards comparable with those required of normal shops. It was unanimously agreed that what was required was registration and licensing of "vehicles used for purposes of itinerant traders."

The meeting next considered in what respects, other than by the Shops Acts, there was a need to exercise control over mobile shops. Mention was made of the requirements of road safety; the Food and Drugs Act, 1955, and Food Hygiene (General) Regulations, 1960; enforcement of the law relating to weights and measures; the suitability or otherwise of the trader, and whether it was desirable to charge a substantial licence fee, so as to offset the unfair advantage enjoyed by mobile traders through the non-rateability of their shops.

It was suggested that, if operators of mobile shops were registered and licensed, the task of inspectors in keeping track of them, and thus of ensuring the regular testing of their appliances, etc., would be made considerably easier. On the question of a substantial licence fee there were, however, two schools of thought, some speakers pointing out that mobile shops, though based on a town, often operated in a number of surrounding rural areas; that there would be considerable difficulty in fairly apportioning the licence fees between the rating authorities concerned; and that it was not practicable to devise a scale of fees that would achieve the desired result and at the same time take into account the widely differing circumstances and scale of operations of mobile traders of all kinds.

The meeting finally agreed that the main objective of the proposed registration and licensing scheme should be to secure compliance by itinerant traders with the Shops Acts (principally as regards restrictions on days and hours of opening), and with these requirements of the Food and Drugs Act, 1955, and the Food Hygiene (General) Regulations, 1960, which could not at present be applied to such traders; and that the secretaries of the various associations represented at the meeting should prepare a report on whether licensing for any or all of those purposes was feasible, what precise restrictions and obligations were reasonable and practicable to require itinerant traders to comply.

The situation that exists in respect of mobile traders is, we think, one that cannot, in fairness, be allowed to continue but, as we said some time ago (see *C. & D.*, July 19, 1958, p. 73) the Government is unlikely to act without a great deal of pressure from traders themselves. We repeat: "Any such pressure should have the full support of chemists as well as of local authorities."

A PHARMACIST'S ANTHOLOGY

THE CHANGED CHEMIST

Verses by Lucio in the *Manchester Guardian*, 1929.

He used to deal in senna, squills,
Of camphorated oils he spoke;
Or urged the need for liver pills,
Or pellets pink for pallid folk;
Of vastly harsher cures than those
He proved at times the savage master,
And in his rougher moments rose
to chili paste or mustard plaster.

From these his livelihood he drew;
His aid was friendly but severe;
But altered times bring methods new—
And what a graceful change is here!
For less and less do human ills
Provide his daily dose of duty—
As adjutant of frocks and frills
He waxes rich on retail beauty.

The lipstick and the rouge replace
The grimmer drugs he sold of yore,
And many a beauteous female face
Reflects the triumphs of his store;
His is the truly paying line,
His is the final touch and smartest;
His shop should bear the splendid sign—
"Here dwells a decorative artist."

Drug Share Movements

THE table below gives the high-low London Stock Exchange quotations during 1962 of some of the important public companies in chemical and allied trades. The figures in the third column represent the middle price at the start of business on April 2.

In common with other sectors of the London Stock Exchange, drugs and chemical share prices in the first quarter of the year generally moved against the holder on news of lower profits—often despite higher turnover. At the beginning of March Fisons' shares rose by over 6s. in the course of a few days on rumours that a takeover bid was to be made. Overshadowing all other transactions, however, were the shares of Courtaulds as a result of the bid by Imperial Chemical Industries. Before the bid was announced Courtaulds' shares had fallen to about 26s.; by the first week in March they had reached 51s.

Name of Company £1 units unless otherwise stated	High 1962	Low 1962	Latest 1962
	s. d.	s. d.	s. d.
Albright & Wilson, 5s. ...	24 1½	20 9	29 9
Ashe Chemicals, 1s.	3 1½	2 3	2 9
Aspro-Nicholas, 5s.	16 9	14 6	15 9†
Beecham Group, 5s.	52 1½	46 6	47 0
Berk, F. W., 5s.	15 6	13 4½	14 0
Boots Pure Drug, 5s.	30 4½	26 10½	29 4½
Borax (Holdings), Deft. Ord., 5s.	18 10½	16 3	18 9
British Drug Houses, 5s. ...	17 0	15 9	16 6
Courtaulds	51 3	37 6	50 0
Cussons, Sons & Co., 2s. ...	26 0	21 6	25 0
Dubarry Perfumery, 1s. ...	1 10	1 4	1 9
Fisons	43 3	34 0	40 6
Gee, Arnold M.	2 3¾	2 2¼	2 2¼†
Glaxo Laboratories, 10s. ...	55 9	51 0	52 0
Greeff Chemical Holdings, 5s.	27 10	21 9	23 0
Hampshire, F. W., 5s. ...			40 0
Ilford, 5s.	22 3	17 0	17 6
Imperial Chemical Industries	58 0	53 3	54 4½†
Laporte Industries, 10s. ...	20 9	18 0	19 1
Monsanto Chemicals, 5s. ...	17 3	12 6	13 3
Potter & Clarke, 1s.	3 3	1 9	2 9
Reckitt & Colman Holdings ...	82 6	75 6	77 6
Sangers, 5s.	7 10½	5 8¼	6 6
Sanitas Trust, 2s.	27 6	23 0	26 4½
Savory & Moore, 5s.	27 4	23 0	26 0
Smith & Nephew, 4s.	17 6	15 0	16 9
Sturge, J. & E., 5s.	9 9	7 6	7 6
Taylors (Cash Chemists), London 6% Cum. Pref. ...	16 9	15 0	16 3
Do. (C. C.) Trust 6% Cum. Pref.	16 4	15 3	16 3
Unilever	47 3	40 6	41 9
United Glass, 5s.	18 9	15 6	15 6
Vitamins, 5s.	10 0	7 9	9 3
Whites (Timothy) & Taylors, 5s.	27 0	21 9	24 0
Do. 7½% Cum. Pref. ...			
Willows, Francis, 2s. 6d. ...	7 9	6 9	7 9
Yardley & Co. "A," 4s. ...	51 6	43 0	45 9

† ex dividend.

NEW FILMS

Understanding Vitamins

ENCYLOPÆDIA BRITANNICA EDUCATIONAL FILMS. Available from Rank Film Library, 1 Aintree Road, Perivale, Middlesex. 16-mm. Colour. Sound. Running time fourteen minutes.

THE film explains what vitamins are, how they work, and why they are necessary for good health. Natural sources of important vitamins are given, and the effect on body tissues of a diet lacking in certain vitamins is illustrated. The film ends by calling attention to aspects of present-day research.

Mouth-to-mouth Respiration

Available from *Rank Film Library,* 1 Aintree Road, Perivale, Middlesex. 16-mm. Black-and-white. Sound. Running time ten minutes.

PRODUCED in Norway as a contribution to reducing the number of deaths in accidents, the film shows four dramatic incidents from everyday life to illustrate that many accidents become fatal because of suffocation and that lives could be saved by wider knowledge of the mouth-to-mouth method of respiration. The film has a concluding scene to show that everyone can use the method. A family is seen at home practising the method.

The Purple Stream

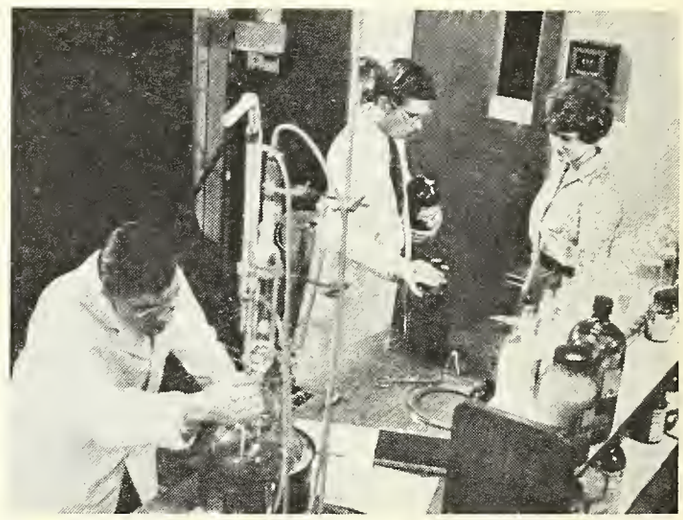
J. WALTER THOMPSON CO., LTD., for *Beecham Foods, Ltd.,* Beecham House, Great West Road, Brentford, Middlesex. 16-mm. and 35-mm. Colour. Sound. Running time 20 minutes.

INTRODUCED by rural settings in the Forest of Dean, the film deals with the harvesting of blackcurrants by casual workers and the subsequent processing, pressing, filtering and testing of the fruit at the factory at Coleford, Glos, for the manufacture of Ribena. Conclusion of the film is by way of after-seasonal festivity in the form of the local carnival. The film has been designed to be suitable for all classes of audience. It is available free of charge.

"Black Monday"

I.C.I. FILM UNIT. 16-mm. Black and white. Running time 18 minutes.

FILMS have been produced on many occasions for driving home the need for care in handling chemicals in factories so as to avoid fatal accidents or injuries. "Black Monday"



points the same moral for research workers in the laboratory—"trained research workers, responsible, and fully aware of safety precautions." The job they undertake is a routine chemical operation, which they have done dozens of times before without incident. On this particular occasion, however, it ends in disaster, by neglect of a routine precaution in ways clear to the onlooker. It is "a straightforward story, without frills," but one likely to be remembered once seen.

MEDICAL ABSTRACTS

A NEW HYPOTENSIVE AGENT

A HYPOTENSIVE drug that acts by inhibiting the synthesis of noradrenaline and serotin, and which has been found to produce milder side-effects than guanethidine or the ganglion-blocking agents, is reported by Irvine and others from Aukland Hospital, New Zealand (*Lancet,* 1962, **I.** 300). The substance is ∝-methyl-3,4-dihydroxy-1-phenylalanine, also known as methyl dopa*. Fifteen patients of various ages from 39 to 72 were given daily oral doses of the drug for 16 weeks, with short periods on placebo tablets at the beginning and near the end of the trial. The dosage required for a satisfactory response varied from 0·75 to 3 gm. daily. Side-effects included dry mouth, sleepiness, loss of energy and indigestion, but they were transient and mild in nature.

*Aldomet (Merck, Sharp & Dohme, Ltd.)—currently undergoing clinical trial in the United Kingdom.

Apothecaries' Dispute with Physicians

A REVIEW OF CONDITIONS IN THE SEVENTEENTH CENTURY

THE background of the quarrel between the College of Physicians and the Society of Apothecaries in the seventeenth century was reviewed by Dr. R. R. Trail (a Fellow of the College and Past-master of the Society) at an evening meeting of the Pharmaceutical Society in London on February 14. Mr. L. G. Matthews was in the chair.

The "war," began Dr. Trail, lasted for over a hundred years, covering the whole of the Stuart period. Fundamental causes lay in the individual charters of incorporation of the two bodies, which conferred some similar powers on opposing forces, and in the confusing and often contradictory Acts and Statutes on the licensing of medical practitioners and rights of guild freemen of the Grocers' Company in former centuries, especially the sixteenth. Each side was justified in fighting for internal ethical standards. Over external discipline and overall control there was inevitable conflict.

Training had followed similar lines in the use of herbal remedies, and close working arrangements were bound to bring friction over the first College pharmacopœia, with its royal proclamation, especially when prescribing by physicians degenerated to coffee-house collaboration with apothecaries, who claimed their right of practice rested in immemorial tradition and in powers that had been granted them in the mid-fifteenth century.

The plague of 1665-66 had exacerbated the main quarrel because physicians without official appointments, even if they had all survived and remained in London, were not enough to deal with the appalling amount of sickness among the poor, who had to depend on the services of apothecaries.

Further trouble came with the scientific revolution, for the early interest of many apothecaries in the meeting that led to the foundation of the Royal Society, and to their opportunities for chemical research in the Hall laboratory, had then no counterpart in the College headquarters.

College of Physicians

Reviewing the events that led to the formation of the College of Physicians, the speaker said that, in the fourteenth century, every craftsman of whatever trade had to belong to a guild. Guilds of Barber-Surgeons in the provinces, unlike the London guild, could include physicians and apothecaries. Together they were the first embodied general practitioners of rural England, competing with both wandering quacks and the retainers of country families who dispensed the traditional herbals, ointments and cordials. Where there was no Guild of his particular craft the journeyman had to join one in which his colleagues might be rope-makers or silk-weavers. That led inevitably to quarrels over control of training and discipline, and to the consequent desire for separate incorporation inside and outside their guilds.

Physicians were not regulated as a separate body until 1421. Those who held university licences then sought separation from their less well trained guild associates by petitioning the King, Lords and Commons for powers to exclude from practice anyone who did not have the degree of Bachelor of Medicine of Oxford or Cambridge. When they failed thereby to exclude the unlicensed they set up with the surgeons a United College, approved by the lord mayor and aldermen of the City, which examined all physicians and surgeons in practice in London, attempted to deal with persons reported for malpractices, and tried unsuccessfully to supervise the Guild of Barber-Surgeons. The College did not survive more than forty years. The action of the physicians in assisting the barbers to obtain a separate charter in 1462 started a quarrel with the now unincorporated surgeons that was to last for centuries.

Penal Powers for the Bishops

As the 1421 Act never became effective, and university graduates were few, the necessity for recognised practice led to the granting in 1511 of powers to Bishops to punish all unqualified practitioners found in their dioceses. In London no one without a university qualification was to practice medicine or surgery except on licence granted after examination by the Bishop or the Dean of St. Paul's sitting with four doctors or surgeons. In the provinces similar licensing powers were given to the Bishops or their Vicars-General, mainly to provide more medical care for a neglected, growing rural population which, according to Dr. Poynter's calculation, could not have had more than one licensed practitioner to every 25,000.

The 1511 Act should really have been null and void in London after the College of Physicians was granted its Charter in 1518. Under that charter they had powers to take action against anyone practising without their special licence within the City and a radius of seven miles. In 1522 those powers were extended to the whole of England, except against practitioners holding a university degree. The City Common Council agreed to punish those attempting to practise without the College licence, but a proviso protected the Grocers Company. Those wide powers were soon curtailed. Despite the justifiable anticlerical feeling of the College, an Act of 1534 empowered the Archbishop of Canterbury to grant a degree, though it did not include the right to practise. Until 1858 anyone holding that licence had a registrable degree. The Act remained on the Statute Book until 1948 though it had long fallen into disuse.

A further complication and irritation for the College came in 1540. A royal charter granted to the barber-surgeons gave them the right to decide who might practise surgery within seven miles of the City without membership of the College; beyond that limit sugeons practised freely both medicine and surgery. When some of the privileges in the charter were withdrawn two years later (because, it was said, of the greed of the surgeons and their refusal to help the poor), the quacks got their opportunity to break the ring of regularised practice, for an Act was passed allowing large numbers of empirics without any recognised training to apply their traditional knowledge of herbs, ointments, plasters and baths to the treatment of outward sores and swellings, and to give their folk-lore drinks to sufferers from agues and the stone. Yet by the beginning of the seventeenth century medicine was a lucrative profession, with or without the College licence, both in the City and in the provinces. Although somewhat modified in 1570, the old statutes on training for medicine at Cambridge remained much the same for nearly 200 years. The standard at Oxford was higher, but anatomy was not taught there before 1624.

A hundred years after its foundation the College made the first attempt to regularise drug treatment in its Pharmacopeia Londinensis, following the standardisations begun in Italy and Germany. Modern pharmacology did not appear until the followers of Paracelsus began to advertise the value of iron, arsenic, mercury and laudanum 300 years after Roger Bacon had taught that medicine should make use of chemistry. Their master had introduced the doctrine of "signatures," and had dared to ridicule Galen's teaching on the four humours, but had retained his belief in magic. Yet Paracelsus was one of the first physicians to state that the true test of a cure was its efficiency.

The Act of 1542 did not undermine the powers granted to the College by the Act of 1540. Four censors, accompanied by apothecaries who were wardens of the Grocers Company, were empowered to enter the shops of apothecaries and to burn all bad drugs at the shop doors. An Act of 1553 extended those powers; the College president could now commit to certain City prisons all habitual offenders. That caused further friction with the apothecaries, who claimed that their 1617 Charter confirmed them in rights of search held by the Grocers' Company from the early fifteenth century.

Why Quacks Flourished

Of all its duties the College felt the most important was to deal with the empirics. True, fines provided almost all its revenue, but the activities of quacks were a continual threat to its desire for discipline and ethical standards. Empirics flourished because the common folk still believed in the magical character of medicine; the only way to protect the simple who, Goodall said as late as 1684, "would pay anything for a cure," was to take a stand for orthodoxy.

The College also had internal troubles in trying to establish ethical

standards. It frowned on several members who prospered by marketing their own elixirs. To those internal were added external troubles. Throughout the seventeenth century the College was continually thwarted in its efforts to maintain professional standards by the protection afforded to quacks and unqualified empirics by the law and by royal and noble personages. Such patronage and legal frustration became so blatant that James I—but without avail—addressed a letter to the president and censors in July 1623 to say that such "winking of faults" must cease.

During the interregnum the College powers declined steadily. With so many physicians with degrees from home and Continental universities practising in London without the College licence it was found necessary in 1664 to institute a new order of honorary Fellows.

On the Restoration, with the consequent return of favour to Royal institutions, the apothecaries were openly opposed, but soon the pendulum swung in favour of the apothecaries once more. Their increasing status, acquired by their employment during the plague year, their association with the experiments of the Royal Society and their consequent steady infiltration into the ranks of recognised practitioners, forced the College to stand on the defensive. Yet it took the College authorities a long time to follow Harvey's advice and to admit that every physician must be at all times something of an empiric. New inorganic cures and new herbs from the East and West Indies could not be ignored when, to the recognised illnesses were added syphilis, epidemics of plague, smallpox, sweating sickness and measles, war wounds resulting from the Civil and Dutch wars, and the scurvy among ships' crews. The apothecaries took a much more practical view of the advances possible under the stimulus of the Royal Society.

The Apothecaries

Apothecaries could be traced back to the twelfth century. By the fourteenth they had been working in close association with physicians for several years. They had a guild together with the pepperers, who sold drugs imported from the East, The name "Grossari" was taken by the pepperers in 1328, when they were already the recognised city authority on weights, but in 1345 they formed with the spicers an amalgamation under the name of "The Pepperers or Easterlings of Soper's Lane and the Spicers of the Ward of Chepe." Until 1373 that combined guild was commonly known as "The Fraternity of St. Anthony." The name was changed when the Fraternity was dissolved for, as "The Company of Grocers," they received their first charter from Henry VI in 1428. To that company the apothecaries were joined but even then were known as the specialised dealers in medicinal drugs, whereas their guild associates sold spices and condiments.

Apparently neither section of the guild was without dishonest members. By the middle of the fourteenth century there had been complaints about poor and adulterated drugs supplied by apothecaries, and a century before similar powers were given to the College of Physicians the Rector of the Grocers' Company was granted the right to search the shops of all apothecaries suspected of fraudulent dealings; he could bring all discovered offenders before the lord mayor for punishment and destroy all bad drugs. As drugs were sometimes already bad on arrival from overseas, Henry VI gave further powers to the Wardens of the Grocers' Company: they had the exclusive right to "garble" drugs at the ports of entry and were known to have used those powers of examination in 1456.

Separation

Though remaining in the Grocers' Company, the apothecaries were incorporated as a separate section by royal charter in 1606, when the grocers' charter was returned, following its suspension on the death of the Queen. As early as 1525 the apothecaries had been mentioned as a separate part of the Grocers' Company in a minute of the City Common Council. Their status was raised considerably when the Statute of Apprentices laid down in 1563 that craftsmen practising an art of "mistery" must serve an apprenticeship of at least seven years. As a "mistery" they now felt themselves a really separate section of the company and resented interference from other members. Full separation was inevitable in a period when all who considered themselves professional men wished to be dissociated from those whom they classed as mere tradesmen, and so they immediately sought the right to form their own Society. It took them ten years to establish their claim. The College did not oppose them; indeed the president said that the granting of a separate charter would bring them under the control of the College more effectively, and would give its authorities the powers they had failed to secure in 1562. He did not foresee the trouble that would come from the final wording in 1617. The apothecaries were not to administer medicines except in cases of imminent danger to life "when no physician was available"; the door was open to full practice during plague visitations.

In the early days of James I's reign apothecaries had no herb gardens attached to their shops; wild herbs were considered to have greater medicinal value. Botany was, however, soon to receive closer study. James's apothecary, John Parkinson, laid out a garden by his house in Long Acre; in 1628 a John Tradescent started one in Lambeth, and a little later a Thomas Johnson one by his shop in Snowhill.

To increase apprentices' practical knowledge of botany, excursions, so-called "herborisings," were begun in 1627, and went on without interruption until the plague. They led to the setting up of the Chelsea Physic Garden in 1673.

Charges of unkindness to the poor in exorbitant fees for dispensing increased in books and pamphlets from the time of their charter of incorporation within the Grocers Company. By the mid-seventeenth century physicians appeared to be often little more than slaves of rich apothecaries, "accepting half their right fee and taking instead 25 or 50 per cent. of the amount paid for the drugs to the apothecary," who "offered the physicians 5s. and 10s. in the £ to excite their industry to prescribe the larger abundance to all the disorders." The apothecaries must thus have been seeing patients at their shops, calling in physicians instead of physicians attending the sick in their own homes. A general change of attitude to the poor, giving them devoted service from both physician and apothecary, did not come until the days of Queen Anne, when advances in science, medical training and philanthropy kept in step.

Factors that enhanced the status of the apothecary during the ten years 1660–70 included the weakening of the College authority, as evidenced by its election in 1664 of seventy-three honorary Fellows; the fact that the plague year showed many apothecaries to have a considerable knowledge of treatment; and the insistence of the Royal Society that experiment was of more value than traditional learning. They had also gained ground against the College by the support they gave to the Parliamentary forces by the City during the Civil Wars.

Not until 1688 did the College set up their own laboratory in conjunction with their dispensary scheme. They claimed the object was to prepare their own medicines, but that the apothecaries doubted. The physicians had revived the old charge that the apothecaries were fleecing the poor. Now came the countercharge that the new laboratory was merely a money-making concern to offset losses resulting from an order to members to treat the sick poor free of charge, and to help their younger members, hard-pressed by the influx of further new Fellows that had been admitted under royal authority.

Dr. Trail then presented a picture of the official attitude to the poor, stemming from the Poor Law Statute of 1601. He continued with an account of the Plague, and the steps taken to combat it. Finally he showed how the activities of the Royal Society affected the quarrels between physicians and apothecaries, "although its Fellows had apparently no desire to be involved in them."

Discussion

The president of the Society (Mr. H. S. Grainger) said the quarrels described had in the eighteenth century become three-cornered, involving the apothecaries, physicians and the pharmacist "newcomers." At Westminster (the first voluntary hospital), the first hospital officer, after the secretary, had been the apothecary, who appeared "a predominantly pharmaceutical one." Yet records showed that the apothecary could only treat patients and supply medicines in accordance with the wishes of a physician. Why had the physicians seen fit to give the apothecary the powers that he had?

Dr. Trail replied that it was well known that Thomas Rosewall was the only resident officer at St. Thomas's Hospital during the Plague. He was so well recognised that his assistant was given his post when he left. The fact that, during that time, apothecaries

"stood in when some surgeons departed quickly" had given the apothecaries a good name.

At the start of the eighteenth century only fifteen apothecaries' shops were listed in the directory of London, because the profession was largely in medical practice. Many more pharmacies had opened by then. Apothecaries, "who were already grumbling that the physician had taken away their right to dispense medicines," then began to protest against the pharmacists "for dispensing the medicines they were giving up in order to practise medicine." Dr. Trail said he respected the pharmacists' decision to "put their feet down" and produce their first Society.

DR. W. HARTSON said he was unaware of the provision of medical aid for the poor before the nineteenth century, but DR. TRAIL said references to treatment of the poor went back a long way.

MR. M. P. EARLES asked if the Royal Society used a more rational materia medica than the official one of the College of Physicians. DR. TRAIL replied that apothecaries had been "quite justly alarmed and annoyed" at the first pharmacopœia, but they were willing to use new drugs, whereas physicians were not.

MR. N. MANNING asked for an indication of the position of physicians and apothecaries in respect of midwifery during the period under review. DR. TRAIL replied that midwifery often had been left in the hands of incompetent and immoral women. Only in the mid-eighteenth century had the subject received the attention it deserved.

MORE CONSUMER TESTS

Projectors, air fresheners, tomato fertilisers

AIR fresheners, slide projectors and tomato fertilisers were surveyed in the March issue of *Which?*, the journal of the Consumers' Association, Ltd.

Slide Projectors

The investigators considered the ideal slide projector to be one giving a bright picture, evenly illuminated, with sharp detail, no distortion, and which would maintain the picture in the same position. They attached special importance to minimum annoyance (stray light leaking from casing, noise from fan, or overheating of the casing), and to the electrical safety of the apparatus.

Eighteen of the most widely distributed slide projectors, ten with 150 watts lamps, one with 200 watts and seven with 300 watts were investigated. Fully automatic projectors were not tested, but six had automatic slide changers built in, while eight had them available as extras.

Optieal tests were performed using the same matt white screen throughout, and all the projectors were placed so as to give pictures of the same size. The test methods and equipment detailed in British Standard 1915:1952 (slightly modified) were employed.

To determine which projector gave most light, the screen was divided into nine equal areas and, with a clear slide in position, the illumination at the centre of each was measured. In the 150 and 200-watt group, the Prado gavc more than 50 per cent. more light than the Alphax Ia, and thc Argus 150°. In the 300-watt group there was no perceptible difference between models, but the 300-watt projectors did give, on average, 2¼ times more light than the 250-watt ones. All the projectors were found to give reasonably evenly lit pictures. The Alphax Ia, Kodaslide 50 and the Paximat S being the best. Resolution was also determined and it was found that, of the 150- and 200-watt models the Aldis XT 150, and of the 300-watt models the Hi-Lyte 707 and Noris 300 gave the sharpest pictures. From none were the projected pictures distorted. Casings of most projectors, with or without fans, were adequately cooled. A panel of consumers found focusing "very easy" with the Noris 150A, Prado 150, and Noris 300; "quite easy" with the Paxamat 200 and Aldis 303; "very difficult" with the Boots 150 and Paterson.

"With a good projector, you should be able to get the picture in the same position on the screen each time," says *Which?* but found it possible to do so only with the Aldis XT 150 and the Noris 150A and 300. The Aldis 303 was judged the noisiest projector and the Paximat S and 200 and Argus 300 Compact the quietcst.

Though all the projectors were properly insulated, some had serious electrical faults. The earth wire of the Prado 150 flex was not connected to the chassis, and was regarded as potentially dangerous, as were the Noris 150A and the Paterson. The Perkeo was designed to earth the projector when used with a continental wall socket only. There were minor electrical defects in the Alphax Ia, Argus 300, and Kodaslide 40 and 50.

Evaluating value for money, the assessors suggest that, in difficult blackout conditions, or with under-exposed transparencies, the 300-watt projector would have a definite advantage. As "best buys" in the 150/200-watt class, the Aldis XT 150 (with built-in slide changer) and thc Noris 150A (current model with 3-core cable), were selected. The latter gave an easily focused picture constantly positioned on the screen, though not as sharp as with the Aldis.

In the 300-watt class, the "best buy" was the Noris 300, which gave a sharp, easily focused picture always on the same position on the screen. The Noris also had the advantage of a separate switch for the lamp and a dcvice for lengthening its life.

Tomato Fertilisers

Which? also reported on tests the Association carried out with four branded tomato fertilisers — Sangral tomato special, Compure K, Tomorite and Liquinure tomato special—and a home-mixed fertiliser. The tests were carried out by the ring culture method in a glasshouse divided to ensure uniform outward conditions for all the plants grown with each treatment. All plants treated with fertiliser gave an increased yield several times greater than the cost of the fertiliser used (up to 6 lb. per plant more than the untreated yield for 1s. 1¾d. worth of fertiliser). Liquid tomato fertilisers "are therefore considered to be well worth using." No great differences were found between Compure K, Liquinure and Tomorite, whieh were adjudged the "best buys." The home-mixed fertiliser (the cheapest) was a modified version of a formula suggested in a Ministry of Agriculturc, Fisheries and Food pamphlet, "Liquid Feeding of Tomatoes." It improved the yield, though less so than the three branded products.

Air Fresheners

Twenty air fresheners were bought and tested—two wick types; five blocks and thirteen aerosols. They were assessed by the use of an osmometer specially constructed for the tests and by a panel of six peoplc. Test odours of methyl mercaptan (it smells like boiled cabbage), trimethylamine (fishy) and stale tobacco smoke were employed. The panel were not told which air freshcner was being tested or used and a total of 2,016 observations were made.

The aerosols were found more convenient for dealing with unpleasant smells unlikely to persist. The wick and block types were slow-acting, but more convenient against persistent smells. Of the aerosols, Haze, Drummer and Airwick mist gave best results. Haze and Drummer were most successful against stalc tobacco smoke but Haze gave the best results against trimethylamine.

Airwick mist was well able to reduce the smell of methyl mercaptan and trimethylamine but had only a small effect on stale tobacco smoke. Dispel gave similar results; it was less effective against methyl mercaptan but cheaper to use.

The blocks, though cheap to use, had only moderate ability to reduce the smell of methyl mercaptan, no effect on stale tobacco smoke, and, in general, only had a slight effect on trimethylamine. As "best buys" the panel selected Airwick mist (aerosol), Airwick (wick), and Dispel (wick) and recommended Drummer (aerosol) against stale tobacco smoke.

Eight out of the thirteen aerosol air fresheners tested were claimed to have a germicidal effect, but *Which?* declares that there is no advantage in killing most airborne organisms, as few produce disease. "And although it might be useful to be able to kill these when there is someone in the house with an infectious illness it would not be possible to sterilise the air of a sick-room with the patient in it. And these air fresheners would not necessarily be effective even if they were applied for twenty-four hours a day—and for the aerosols this would certainly be expensive."

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 386.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

FULCIN FORTE tablets

MANUFACTURER: Imperial Chemical Industries, Ltd., Pharmaceuticals division, Fulshaw Hall, Wilmslow, Ches.

DESCRIPTION: Scored tablets, each containing 125 mgm. of griseofulvin, in fine particle form.

INDICATIONS: Fungal infections of the skin, hair and nails.

DOSAGE: Adults, one tablet four times a day is adequate for most cases. Children, one to two tablets daily.

HOW SUPPLIED: In containers of 100 and 1,000.

FIRST ISSUED: January 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

LINGRAINE tablets

MANUFACTURER: Bayer Products, division of Winthrop Group, Ltd., Winthrop House, Surbiton, Surrey.

DESCRIPTION: Green, uncoated tablets, each containing 2 mgm. of ergotamine tartrate, formulated for sublingual use.

INDICATIONS: For rapid relief of migraine attacks and other vascular headaches.

CONTRAINDICATIONS: Severe arteriosclerosis, coronary artery disease, thrombophlebitis, Raynaud's syndrome, Buerger's disease, liver or kidney disease. Pregnancy.

DOSAGE: Adults, one tablet sublingually at the first sign of an attack. If necessary another tablet should be taken ½–1 hour later. No more than three tablets should be taken in 24 hours and not more than five in any one week.

SIDE-EFFECTS: Occasional nausea and vomiting.

HOW SUPPLIED: Foil-packed, in box of twelve.

SUPPLY RESTRICTIONS: P.I, S.1, S.4A.

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THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

LOCAN-PRED suppositories

MANUFACTURER: Allied Laboratories, Ltd., 140 Park Lane, London, W.1.

DESCRIPTION: Cream coloured suppositories, each containing 2·5 mgm. of prednisolone, 15·0 mgm. of amethocaine hydrochloride, 5·0 mgm. of amylocaine hydrochloride, 60·0 mgm. of bismuth subnitrate, and 120·0 mgm. of zinc oxide in a water-soluble base. Anti-inflammatory, antiseptic, anti-irritant and astringent.

INDICATIONS: Severe inflammation accompanying hæmorrhoids, proctitis, ano-rectal fistula, etc.; pre- and post-operatively in ano-rectal surgery.

DOSAGE: One inserted as deeply as possible night and morning and after defæcation, or as indicated, until inflammation is controlled.

HOW SUPPLIED: In boxes of twelve and seventy-two.

SUPPLY RESTRICTIONS: P.I, Therapeutic Substances Act.

FIRST ISSUED: February 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

SOFRACORT skin spray

MANUFACTURER: Roussel Laboratories, Ltd., Columbus House, Wembley Park, Middlesex.

DESCRIPTION: Aerosol spray containing, 250 mgm. of soframycin, 25 mgm. of gramicidin and 50 mgm. of hydrocortisone in 30 mils.

INDICATIONS: Infected dermatitis; infective eczematoid dermatitis; eczema (infantile, seborrhœic and nummular); contact dermatitis; ano-genital pruritus; lichen simplex.

METHOD OF USE: To be sprayed on to the affected area as required.

PRECAUTIONS: The eyes should be shielded during spraying of facial lesions.

HOW SUPPLIED: In metal pressurised pack of 30 mils.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: March 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

BROCILLIN syrup

MANUFACTURER: Beecham Research Laboratories, Ltd., Great West Road, Brentford, Middlesex.

DESCRIPTION: Powder to make 60 mils of yellow cinnamon-flavoured aqueous suspension, containing 62·5 mgm. of propicillin (as potassium salt) per teaspoonful (5 mils).

INDICATIONS: Gram-positive infections, particularly streptococcal infections (tonsillitis, laryngitis, etc.).

CONTRAINDICATIONS: Sensitivity to penicillin.

DOSAGE: Adults, 2–4 teaspoonfuls every 4–6 hours. Children, 1–2 teaspoonfuls every 4–6 hours.

HOW SUPPLIED: In bottle of 60 mils for suspension.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: January 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

PIXCYL H.C. cream

MANUFACTURER: Genatosan, Ltd., 12 Derby Road, Loughborough, Leics.

DESCRIPTION: White non-greasy cream, with tar-like odour, containing 0·5 per cent. of hydrocortisone acetate and 0·72 per cent. of purified coal tar fractions (≡ 3 per cent. crude coal tar).

INDICATIONS: Subacute and chronic eczema-dermatitis; infantile eczema; pruritis; seborrhœic dermatoses.

METHOD OF USE: Apply two or three times a day.

HOW SUPPLIED: In 15-gm. tube.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

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THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

SEBACLEN solution

MANUFACTURER: Denver Laboratories, Ltd., 12 Carlisle Road, London, N.W.9.

DESCRIPTION: Clear straw-coloured liquid (foams on shaking), containing 1 per cent. each of biphenamine hydrochloride and oleyl alcohol; adjusted to *p*H 4·9.

INDICATIONS: Seborrhœa of the scalp; dandruff.

METHOD OF USE: Once or twice a week as directed.

HOW SUPPLIED: In plastic squeeze bottles of 2 and 4 fl. oz.

FIRST ISSUED: February 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

TOLNATE tablets

MANUFACTURER: Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts.

DESCRIPTION: Yellow sugar-coated tablets, each containing 20 mgm. or 40 mgm. of prothipendyl (as hydrochloride). Sedative-tranquilliser and antiemetic.

INDICATIONS: Anxiety, restlessness, tension, agitation and insomnia associated with psychoneurosis, organic disease and psychosomatic conditions; nausea and vomiting; pre-operative medication; labour; schizophrenia and other psychotic states associated with agitation, hallucinations and delusions. Potentiation of analgesics, sedatives and anæsthetics.

CONTRAINDICATIONS: Should not be given to stuporous patients.

DOSAGE: (Low dosage) 40-120 mgm. daily; (High Dosage) 240-960 mgm. daily. Children (up to 1 yr.), 1-3 mgm. per kilo of body weight, two or three times a day; (1-5 yrs.), 1-2 mgm. per kilo, two or three times a day; (over 5 yrs.), 20-40 mgm., two or three times a day.

PRECAUTIONS: When given to patients known to be liable to orthostatic collapse low doses should be given initially. Patients should be kept lying down after administration of high doses.

HOW SUPPLIED: In containers of fifty and 500.

SUPPLY RESTRICTIONS: Recommended on prescription only.

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THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

ACDERM lotion

MANUFACTURER: Commercial Drug & Chemical Co., 190 Stamford Hill, London, W.16.

DESCRIPTION: Colourless liquid containing 20 per cent. of propylene glycol, 10 per cent. each of phenazone, tricthanolamine and liq. sulphœstolis and 0·7 per cent. of precipitated sulphur.

INDICATIONS: Chronic inflammation of the sebaceous glands; acne vulgaris.

METHOD OF USE: Apply at night to cleansed skin.

HOW SUPPLIED: In bottle of 4 fl. oz.

FIRST ISSUED: February 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

DORIDEN-SED tablets

MANUFACTURER: CIBA Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: White tablets (embossed CIBA one face, scored and coded I/A on reverse), each containing 100 mgm. of glutethimide.

INDICATIONS: Daytime sedation.

DOSAGE: One every 6–8 hours (adults).

HOW SUPPLIED: In containers of twenty-five, 100 and 500.

SUPPLY RESTRICTIONS: P.I, S.4B.

FIRST ISSUED: April 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

FEOSPAN Spansule capsules

MANUFACTURER: Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts.

DESCRIPTION: Red-clear sustained-release capsules, each containing 150 mgm. of exsiccated ferrous sulphate and 3 mgm. of aneurine hydrochloride as minute red and green pellets.

INDICATIONS: Iron deficiency anæmias.

DOSAGE: One daily.

HOW SUPPLIED: In containers of thirty and 250.

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THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

LEDERCORT cream with neomycin

MANUFACTURER: Lederle Laboratories, a division of Cyanamid of Great Britain, Ltd., Bush House, Aldwych, London, W.C.2.

DESCRIPTION: Water miscible cream containing 0·1 per cent. of triamcinolone (as acetonide) and 0·5 per cent. of neomycin sulphate (≡ 0·35 per cent. neomycin base).

INDICATIONS: Inflammatory dermatoses, especially where secondary infection is likely to occur.

CONTRAINDICATIONS: Sensitivity to either ingredient.

METHOD OF USE: Apply to the infected area as directed.

HOW SUPPLIED: In tubes of 5 and 15 gm.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: March 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

THA tablets and injection

MANUFACTURER: Ward, Blenkinsop & Co., Ltd., Fulton House, Empire Way, Wembley, Middlesex.

DESCRIPTION: *Tablets,* each containing 15 mgm. of tacrine hydrochloride. *Injection,* containing 15 mgm. per mil.

INDICATIONS: In morphine and barbiturate poisoning; to prolong skeletal muscle relaxation in anæsthesia; during morphine therapy (*see Mortha card*).

DOSAGE: As a respiratory and central nervous system stimulant: 15–60 mgm. intravenously as necessary. For muscular relaxation in anæsthesia: 10 mgm. intravenously with 50 mgm. of 5 per cent. succinyl choline chloride. As a decurarising agent: 30-60 mgm. intravenously (precede with atropine if over 40 mgm.). In conjunction with morphine: 10-30 mgm.

HOW SUPPLIED: *Tablets* in container of 100. *Injection* in box of five 2-mil ampoules and single 10-mil multidose vial.

FIRST ISSUED: December 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

DANTROL lotion

MANUFACTURER: Commercial Drug and Chemical Co., 190 Stamford Hill, London, N.16.

DESCRIPTION: Colourless liquid containing 0·25 per cent. of cholesterol, 0·1 per cent. of lecithin, 0·2 per cent. of chlorocresol and 0·5 per rent. of salicylic acid.

INDICATIONS: Dandruff and alopecia seborrhœica.

METHOD OF USE: Apply freely to hair, massaging well into scalp, night and morning.

HOW SUPPLIED: In bottle of 4 fl. oz.

FIRST ISSUED: February 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

ELASE powder and ointment

MANUFACTURER: Parke, Davis & Co., Staines Road, Hounslow, Middlesex.

DESCRIPTION: Lyophilised *powder* in vials containing 25 units of fibrinolysin and 15,000 units of desoxyribonuclease, to make a solution in normal saline immediately before use. *Ointment* containing 1 unit of fibrinolysin and 667 units of desoxyribonuclease per gm.

INDICATIONS: For debridement of necrotic debris and purulent exudates from the surface of wounds.

METHOD OF USE: Intravaginally, in moderate cervicitis and vaginitis, 5 mils of ointment inserted every night until contents of 30 gm. tube are exhausted; in severe conditions the contents of one vial of powder, dissolved in 10 mils of normal saline should be instilled first (see literature). For topical therapy, the ointment should be applied periodically for as long as enzymatic activity is desired, up to a maximum of 24 hours.

PRECAUTIONS: Use with care where patient is highly sensitive to materials of bovine origin.

HOW SUPPLIED: In rubber-capped vial of *powder,* tubes of 10 and 30 gm. *ointment.* For intravaginal use the 30 gm. tube is also supplied with six disposable applicators.

FIRST ISSUED: January 1962.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, April 7, 1962

LIBRIUM injection

MANUFACTURER: Roche Products, Ltd., 15 Manchester Square, London, W.1.

DESCRIPTION: Ampoules containing 100 mgm. of chlordiazepoxide, accompanied by ampoules of solvent.

INDICATIONS: Symptoms of acute alcoholism (delirium tremens, hallucinations); acute anxiety; phobic or panic reactions.

DOSAGE: Acute alcoholism: 50–100 mgm. intramuscularly, repeated after 2–4 hours if necessary. Acute anxiety, etc.: 50–100 mgm. intramuscularly, followed by 25–100 mgm. three or four times a day if necessary. Not more than 300 mgm. should be given during a 6-hour period. In most cases the acute symptoms are rapidly controlled by injections and subsequent treatment may be given orally.

PRECAUTIONS: Injection prepared with the intramuscular solvent should not be given intravenously. Do not use the solvent if it is opalescent or hazy.

HOW SUPPLIED: In pack of three twin-ampoules (one containing Librium powder and the other 2 mils of intramuscular solvent).

SUPPLY RESTRICTIONS: P.I., S.4B.

FIRST ISSUED: January 1962.

AMENDMENTS

BETNELAN TABLETS. Now contain 0·25 or 0·5 mgm. of betamethasone, in containers of thirty (0·5 mgm.), fifty (0·25 mgm.), 100 and 500.

LAROXYL TABLETS. 10 mgm. strength supplied in containers of 100 and 500; 25 mgm. strength in containers of twenty-five, 100 and 500.

NOBEPYROL SPRAY. Now supplied in pressurised containers of 45 and 300 gm.

NORADRAN BITABS; NORADRAN BITABS "NOCTE." Ephedrine hydrochloride content reduced to 15 mgm. in each tablet.

ORASTREP SUSPENSION. Now supplied in bottles of 50 and 500 mils.

ROMORPHAL INJECTION. Morphine now present as the hydrochloride.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, APRIL 4: Inquiry for CRUDE DRUGS during the week was mainly confined to items in short supply. There was small business done in a wide range of other commodities, although the volume was insufficient to alter existing price levels.

The first quarter of the year is usually the time when merchants buy their bulk of Matto Grosso IPECACUANHA requirements, but this year they have not been able to do so because little or none has been offered in Brazil. COPAIBA BALSAM was quoted on the spot at 11s. per lb., the market having been bare for some months. A parcel of QUILLAIA was also on offer at around 185s. per cwt. The SENNA supply position on the spot was unchanged but a parcel of Alexandrian No. 1 pods was reported to be afloat. Portuguese ERGOT eased to 8s. per lb. on the spot from 8s. 9d. and SENEGA was threepence per lb. easier with little interest shown. A wider range of RHUBARB was available although demand continued sluggish. Indian CUMIN SEED was lower by 15s. per cwt.

In ESSENTIAL OILS the downward drift in LEMONGRASS prices continued with April shipment offering at 20s. per lb. against 24s. 6d. in the previous week. PEPPERMINT, both Chinese and Brazilian, were weaker by one shilling and by sixpence per lb. respectively. ANISE remained firm at around 19s. 6d. a lb., both spot and c.i.f. Brazilian BOIS DE ROSE was virtually cleared on the spot; shipment offers have not been received for several weeks.

Pharmaceutical Chemicals

ACETANILIDE. — Crystals. One-cwt. lots, 2s. 10d. per lb.; 5-cwt., 2s. 9d.

ADRENALINE. — (Per gm.). Synthetic B.P. 1-kilo lots, 11d.; 500 gm., is 1s. 1d. ACID TARTRATE, B.P., 1 kilo, 7½d.; 500 gm. 9d.

ALOIN. — Micro-crystalline, 14-lb. lots, 31s. 6d. per lb.

ALUMINIUM ACETATE.—B.P.C. in 1-cwt. sacks, 1s. 9d. per lb.

p-AMINOSALICYLIC ACID. — SODIUM, 17s. 6d. per kilo for 1,000-kilo lots.

ASPIRIN.—One-ton lots, 4s. 0½d. per lb.; 5-cwt., 4s. 5d.; 1-cwt., 4s. 8d.

BARIUM SULPHATE. — B.P., 250-kilo lots, 3s. 3½d. per kilo.

BENZOIC ACID.—One cwt., 2s. 11½d. per lb.: and SODIUM SALT, 2s. 9½d. per lb.

BENZYL BENZOATE. — B.P. in 1-ton lots, 4s. 6d. per lb.

BISMUTH SALTS. — Prices (per lb.) in packages over 2-lb.:—

	28 lb. to 1 cwt.		1 cwt.		5 cwt.	
	s.	*d.*	*s.*	*d.*	*s.*	*d.*
CARBONATE ..	20	6	20	0	19	6
SALICYLATE ..	20	3	19	9	—	
SUBGALLATE ..	19	9	19	3	—	
SUBNITRATE ..	18	6	18	0	17	6

BISMUTH AMMONIUM CITRATE is 55s. per lb. and SODIUM TARTRATE, 35s.; OXIDE, 26s. 10d.; OXYCHLORIDE, 27s. 3d.; in cartons of 28-lb.

BRUCINE. — Per oz. ALKALOID is 8s. and SULPHATE, 7s.

CAFFEINE. — ANHYDROUS and MONOHYDRATE 32s. per kilo for under 50-kilo lots and 30s. 10d. for over 50 kilos. CITRATE, 24s. 1d. and 23s. 1d. for equivalent lots.

CALAMINE.—Five-cwt. lots, 1s. 10d. per lb.; 1-ton, 1s. 8½d.

CHINIOPHON.—B.P. 1948, 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

CHLOROFORM.—1-cwt. lots in winchesters, 3s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2d. and 3s. 2½d. per lb. respectively.

CHLOROPHYLL.—Water soluble, 100 per cent., 280s. per lb.; oil soluble, 25s. per lb.

COUMARIN.—In under 28-lb. lots, 19s. per lb., under 1-cwt., 18s. 3d. per lb.

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

DICOPHANE (DDT). — One ton lots, 2s. 2d. per lb.

DIHYDROXYACETONE. — For contracts of 1,000 kilos, £4 per kilo.

DIPHENAN. — (Per lb.), 55s. 3d. (56-lb.), to 63s. (1-lb.).

EMETINE. — One-kilo lots. HYDROCHLORIDE, 8,642s. per kilo.

HOMATROPINE. — 16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYOSCINE HYDROBROMIDE.—Per oz. 102s.

IODIDES. — (Per kilo). Potassium, 50-kilo lots, 19s. 3d.; SODIUM, 24s. 3d. for 25-kilo lots. AMMONIUM, 44s.

IODINE.—Resublimed in less than 50-kilo lots, 25s. 4d. per kilo. Minimum delivered rate for CRUDE is 17s. 4d. per kilo.

IODOFORM.—Powder (per kilo), 51s. 6d. in 50-kilo lots; less than 50-kilos, 53s. Crystals are 3s. per lb. more.

ISOPRENALINE SULPHATE.—One-kilo lots, 530s. per kilo; 5-kilos, 510s. per kilo.

KAOLIN.—LIGHT, 60s. per cwt.; 1-ton, 57s. per cwt.

LACTIC ACID. — B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. for 5-cwt. lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots: 12 winchesters, 2s. 8d. per lb.

LACTOSE. — B.P. in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals, 225s. per cwt.

MAGNESIUM CARBONATE. — Per cwt. LIGHT, 129s. or 121s. for 1-ton lots; HEAVY, 175s. for 1-cwt. lots; from 130s. to 135s. for 1-ton lots.

MAGNESIUM CHLORIDE. — One-cwt. 1s. 10d. per lb., 5-cwt., 1s. 7d.

MAGNESIUM DIHYDROGEN PHOSPHATE. — One-cwt. drums, 4s. per lb.

MAGNESIUM HYDROXIDE.—B.P.C., 1-cwt. lots, 3s. 7d. per lb.; 1-ton, 3s. 2d. per lb.

MAGNESIUM OXIDE, B.P.—LIGHT, 1-cwt. lots, 3s. 2d. per lb.; HEAVY, 5s. 10d. per lb.

MAGNESIUM PEROXIDE.—B.P.C. (15 per cent.), 3s. 11d. per lb. (1-cwt.).

MAGNESIUM SULPHATE. — B.P. in minimum 1-ton lots varies between £19 5s. and £25 per ton according to size of crystal and manufacture. Exsiccated, £54 per ton.

MAGNESIUM TRISILICATE.—(Per lb.). In 28-lb. packages:—28-lb., 4s. 9½d.; 1-cwt. 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

METHYL SALICYLATE. — Five-ton lots, 3s. 2d. per lb.; 1-ton, 3s. 2½d.; 10-cwt., 3s. 3d.; 5-cwt., 3s. 4d.; 1-cwt., 3s. 5d.

OLEIC ACID.—B.P. grade, £171 10s. per ton. Small lots, 21s. 5d. per gall.

PHYSOSTIGMINE. — Per gm.: ALKALOID, 14s. 8d. (5-gm. lots): SALICYLATE, 10s. and SULPHATE, 12s. 7d. (25-gm. lots); NITRATE, 1s. 1½d. (500-gm.).

POTASH SULPHURATED. — Lump, B.P.C., 2s. 9d. per lb. in 1-cwt. lots.

POTASSIUM ACETATE. — (Per lb.) 1-cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10-cwt., 2s. 6d.

POTASSIUM BICARBONATE.—B.P. powder, 110s. per cwt. 1–4-cwt. lots and 105s. per cwt. for 5-cwt. and over.

POTASSIUM BROMATE. — In 5-cwt. lots, 5s. 3d. per lb.

POTASSIUM CARBONATE. — One-cwt. kegs, 2s. 3d. per lb.

POTASSIUM CHLORATE. — One-cwt. cases, 2s. 6d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 8d. per lb. and pellets, 4s. 6d.; technical flake, 1s. 10d.

POTASSIUM 8-HYDROXYQUINOLINE SULPHATE. — 1 kilo is 47s. 1d. and 50 kilos, 44s. per kilo.

POTASSIUM METABISULPHITE. — One-cwt. kegs, 170s.

POTASSIUM NITRATE. — Pharmacopœial quality, 100s. per cwt. (crystals or powder) in 1-cwt. lots.

POTASSIUM PERMANGANATE.—Scarce, B.P. in 1-cwt. lots, 2s. 0¼d. per lb. Technical 214s. per cwt.; 1-ton lots, 203s. per cwt.

POTASSIUM QUADROXALATE. — One-cwt., 3s. 6d. per lb.

POTASSIUM THIOCYANATE. — One-cwt. 5s. 6d. per lb.

PROCAINE HYDROCHLORIDE.—100-kilo lots, 45s. per kilo.

PYROGALLIC ACID. — One-cwt., pure crystals, 24s. 6d. per lb.; resublimed 26s. 6d.

QUINIDINE.—For 15 kilos or 500 oz. or more:—

Home Trade	Per kilo		Per 100 oz.	
	s.	*d.*	*s.*	*d.*
QUINIDINE				
SULPHATE	199	1	564	6
ALKALOID cryst. ..	260	8	739	1
ALKALOID precip. ..	263	9	747	9
HYDROCHLORIDE ..	223	0	632	1
HYDROBROMIDE ..	216	11	615	0
GLUCONATE	221	9	628	9

Prices include tins and cases and free delivery U.K.

QUININE. — 1,000-oz. lots:—ALKALOID 3s. 8½d. per oz.; SULPHATE, B.P., 1932, 2s. 5d.; SULPHATE, B.P., 1958, 2s. 8½d.; BISULPHATE, 2s. 5½d.; DIHYDROCHLORIDE, 3s. 5d.; HYDROCHLORIDE, 3s. 1½d.; ETHYL CARBONATE, 4s. 1½d.; HYDROBROMIDE, 3s. Quantities under 100 oz. or 1-kilo plus threepence.

SACCHARIN.—B.P.C. powder. One lb. and over, 108s. 2d. per lb.; SODIUM SALT, 87s. 6d. per lb. Prices include duty and carriage.

SULPHURIC ACID.—Ninepence to 1s. 2½d. per lb. in Winchesters.

THYMOL. — One-cwt. lots, 14s. 9d. per lb.

THEOBROMINE. —ALKALOID in 50-kilos, 50s. per kilo;—CALCIUM SALICYLATE (12½-kilos), 49s. per kilo; and—SODIUM SALICYLATE, 46s.

THEOPHYLLINE.—12½-kilo lots: ALKALOID ANHYDROUS, 33s. per kilo and B.P., 32s. 9d.; AMINOPHYLLINE, 30s. per kilo, 12½ kilos, 31s. per kilo.



no need to sugar this pill

Fersamal tablets differ from other iron tablets in that they contain ferrous fumarate, a form of iron that is palatable and stable enough to need no sugar coating. It is well absorbed and well tolerated and rarely causes gastro-intestinal upset, even in patients who are unable to tolerate other iron salts.

Being small, Fersamal tablets are easy to swallow although they may be chewed or crushed if preferred. Their dull brown colour makes them unattractive to children, but they are unlikely to be harmful even if taken accidentally.

Each Fersamal tablet contains 200 mg. anhydrous ferrous fumarate. This provides a high content of ferrous iron at low cost.

Fersamal

iron that's nice and easy to take

TABLETS: Tubes of 100 and 1000 Retail prices 3/4 and 26/8
Trade prices 30/- per doz. and 20/- each

SYRUP: Bottles of 6 fl. oz. Retail price 4/8
Trade price 42/- per doz.

The name FERSAMAL is a Glaxo trade mark

GLAXO

GLAXO LABORATORIES LIMITED

In hay fever . . . and other allergic disorders . . . Febramine is the antihistamine which provides effective relief *without sedation*. Patients remain active and alert, free to concentrate on work and enjoy leisure. Febramine is being advertised to the medical profession—make sure your stocks are adequate.

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Crude Drugs

ALOES. — Cape primes, spot, 175s. per cwt.; shipment, 172s. 6d., c.i.f., both nominal. Curaçao, spot, 410s.; shipment, 385s., c.i.f.

ANISE. — Chinese STAR, 185s. per cwt., spot, duty paid; shipment, 160s., c.i.f.

BALSAMS. — Per lb.: CANADA: Spot, 20s. 6d. to 23s. 6d. COPAIBA: B.P.C. grade, 11s. on spot. PERU: Spot, 8s. 6d., duty paid. TOLU: B.P., from 12s. to 17s. 6d. as to analysis.

BELLADONNA. — Herb and LEAVES unobtainable. ROOT, 1s. 10d. per lb. for material testing over 0·5 per cent.

BENZOIN. — Sumatra block, spot £20 to £28 as to quality.

BUCHU. — Spot, 4s. 3d. per lb.; shipment, March-April, new crop, 3s. 11d., c.i.f.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS. — East African on stalk, 150s. per cwt.; Ethiopian, 145s.

CARDAMOMS.—Aleppy greens, 9s. 6d. per lb., spot; shipment, 8s., c.i.f.

CASCARA. — Spot, 260s. per cwt.; shipment, 240s., c.i.f.

CASSIA. — *Fistula*, 105s. per cwt.; *lignea* (whole), for prompt shipment, 340s., c.i.f.

CHAMOMILE.—Belgian, 6s. 6d. to 7s. 6d. per lb. as to quality; Hungarian type, 6s. 6d.

CHERRY BARK. — Thin natural, 1s. 9d. per lb.; shipment, 1s. 6½d., c.i.f.

CHILLIES. — Nigerian, 195s. per cwt. Mombasa, 300s.; Zanzibar, 240s.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 5¾d.; 3 O's, 5s. 0½d.; O, 4s. 8½d.; quillings, 3s. 3¾d.; featherings, 1s. 5¾d.

CLOVES. — Zanzibar spot, 3s. 3d. per lb. nominal; shipment, 2s. 9d. to 2s. 11½d., c.i.f., as to grade.

COCHINEAL. — Black-brilliant, 8s. to 8s. 6d. per lb.; silver-grey, 6s. 6d. nominal.

COCILLANA. — Bark, 2s. per lb., spot; shipment, 1s. 9d., c.i.f., both nominal.

COLOCYNTH PULP.—Spot, 2s. per lb.

DIGITALIS. — *Purpurea* for shipment, 2s. 4d. per lb., c.i.f.

ELEMI.—Spot, 1s. 9½d. per lb. Shipment, 1s. 5d., c.i.f.

ERGOT.—East European on spot 7s. per lb. Portuguese, spot, 8s.

FRANGULA.—Spot, 87s. 6d. per cwt.

GENTIAN.—Spot, French, 150s. per cwt.

GINGER.—(Per cwt.). African spot and shipment nominal. Jamaican No. 3, spot, 420s.; new crop, March-April shipment, 400s., c.i.f.; Cochin, spot, 142s. 6d.; new crop for shipment, 120s., c.i.f.

GUM ACACIA. — Kordofan-cleaned sorts, 142s. 6d. per cwt., spot; shipment, 138s., c.i.f.

HENNA. — Indian, spot, 95s. per cwt.; shipment, 63s., c.i.f.

HONEY. — (Per cwt.). Australian light amber, 100s. to 105s. and medium amber, 95s. to 100s. Argentine, 115s. to 120s.; Jamaican, 115s. to 120s.; Canadian clover, 150s. to 155s. Mexican, 110s. to 115s., ex warehouse.

IPECACUANHA.—Spot cleared. Shipment: Costa Rican, 82s. 6d. to 87s. 6d. per lb.; Matto Grosso, small lot for May shipment, 57s. 6d., c.i.f.; Nicaraguan, no offers.

JUNIPER BERRIES. — Italian, 125s. per cwt.; German, 120s.

KARAYA. — No. 1 gum, spot 300s. per cwt.; No. 2, 235s.

KOLA NUTS — African, 6d. spot and 4½d., c.i.f. (per lb.).

LEMON PEEL.—Spot, 2s. 3d. per lb.

LIQUORICE. — Natural root: Russian 67s. 6d. per cwt.; Anatolian, 57s.; Persian, 52s. 6d.; Sicilian 1-kilo bundles, 1s. 6d. per lb. Block juice: Anatolian from 200s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—American spot, 6s. 3d. per lb.

MACE. — Whole pale blade, 21s. per lb., spot.

MERCURY.—About £62 10s. per flask of 76-lb.

NUX VOMICA.—Cochin, 80s. per cwt. on the spot.

ORANGE PEEL. — Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian, 11½d.; Spanish, 1s.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PEPPER.—White Sarawak spot, 3s. 4½d. per lb.; shipment, 3s. 3¾d., c.i.f. Black Sarawak spot, 2s. 9d.; shipment, 2s. 8½d., c.i.f. Black Malabar, 315s. per cwt. spot; shipment, 292s. 6d., c.i.f.

PODOPHYLLUM.—*Emodi*, no offers, *Peltatum*, 365s. per cwt.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, 74s. 6d. per lb. for small lots.

QUILLAIA.—Spot 185s. per cwt. Shipment, 160s., c.i.f.

RHUBARB. — Chinese small rounds from 4s. 6d. to 9s. per lb. on the spot.

SAFFRON.—Mancha selecta, 170s. per lb. spot; shipment, 180s., c.i.f.

SARSAPARILLA. — Jamaican native red spot, 2s. 6d. per lb.; prompt shipment, 2s., c.i.f.

SEEDS. — (Per cwt.). ANISE.—Turkish nominally 345s., duty paid. CARAWAY.—Dutch sold at 157s. 6d., duty paid. CELERY.—Indian 275s. spot; shipment (April–May), 255s., c.i.f. (new crop June–July), 155s., c.i.f. CORIANDER.—Moroccan, 135s., duty paid; Indian bold, 85s., spot; shipment: Moroccan, 97s. 6d., c.i.f.; Indian bold, 72s. 6d., c.i.f. CUMIN. — Indian, 142s. 6d.; Iranian, 136s., duty paid; Cyprian, 180s.; shipment, Iranian, 122s. 6d., c.i.f. DILL.—Indian, 97s. 6d., spot; shipment, 75s., c.i.f. FENNEL. — Indian 107s. 6d., spot; shipment, 87s. 6d., c.i.f., paid. FENUGREEK.—Moroccan, 104s., duty paid; shipment, 98s., c.i.f. Indian now offered on spot, 102s. 6d. MUSTARD. —English, 60s. to 85s., according to quality.

SENEGA.—Spot, 15s. 9d. per lb.

SENNA. — (Per lb.). *Tinnevelly* LEAVES, new crop, spot: Prime No. 1, 2s. 4d.; prime No. 2, 1s. 5d.; No. 3, f.a.q., 1s. 1d. PODS: hand-picked, No. 1, 2s. 6d.; No. 2, 1s. 9d.; manufacturing cleared. *Alexandria* pods: Manufacturing cleared; hand-picked, only lower grades offering around 4s. per lb. A parcel of No. 1 afloat.

SHELLAC. — F.O.T.N., 195s. per cwt.; No. 1, 207s. 6d.; F.O., 225s. to 275s., spot.

SQUILL.—White 75s. to 85s. per cwt. as to holder.

STRAMONIUM. — Indian LEAVES 70s. per cwt. spot. Dutch 0·5 per cent. alkaloid, 93s., c.i.f.

STYRAX.—Spot, 24s. 3d.

TONQUIN BEANS. — Para spot, 6s. per lb.; shipment, 5s. 5d., c.i.f. Angostura, 10s. 6d.

TURMERIC. — Madras finger, spot, 127s. 6d. per cwt. April–May shipment, 107s. 6d., c.i.f.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 430s.; shipment, 420s., c.i.f. Abyssinian, spot cleared; shipment, 375s., c.i.f. Sudanese, spot cleared, shipment, 375s., c.i.f. CANDELILLA, spot, 465s.; CARNAUBA, fatty grey, spot, 400s.; shipment, 367s. 6d., c.i.f.; prime yellow, spot, 670s.; shipment, 620s., c.i.f.

Essential and Expressed Oils

ALMOND.—Spanish, 4s. 6d. per lb., duty paid.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE. — Chinese, 19s. 6d. per lb., spot; shipment, 19s. 6d., c.i.f.

BOIS DE ROSE.—Brazilian, 17s. 6d. per lb. on the spot; shipment not offering.

CARAWAY.—Imported oil, 38s. per lb.

CEDARWOOD.—American rectified 9s. 6d. per lb. on the spot.

CINNAMON. — From quillings, best English-distilled is 650s. per lb.; other B.P. oils from 85s. per lb. Ceylon leaf, forward shipment, 11s. 4d.; Seychelles, 7s., spot.

CITRONELLA. — Ceylon, spot, 6s. 7d.; shipment, 6s. 5d. per lb., c.i.f. Formosan, spot, none in bond; shipment, 8s. 9d., c.i.f.; Chinese, 8s. 7½d., c.i.f.; spot cleared.

COD-LIVER. — B.P. is 11s. 6d. per gall. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

EUCALYPTUS.—Spanish, 3s. 3d. to 3s. 6d. per lb. on spot. Chinese, 3s. 3d., all duty paid.

FENNEL.—Spanish sweet, spot, 11s. per lb.

GERANIUM.—Bourbon, 90s. to 130s. per lb. on the spot.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid. English, 135s.

GRAPEFRUIT.—Florida, 18s. per lb.

LEMON. — Californian cold-pressed from 26s. per lb., spot; Sicilian cold-pressed about 25s. Terpeneless, 400s.

LEMONGRASS.—Spot 23s. 6d.; April shipment, 20s. per lb., c.i.f.

LIME. — West Indian distilled, 48s. per lb. on the spot.

ORANGE.—Floridan sweet oil, 3s. per lb.: West Indian, 3s. 6d.; West African, 14s. 6d.; Israeli, 5s.

PENNYROYAL. — Spot is 20s. per lb., duty paid.

PEPPERMINT. — *Arvensis:* Chinese spot, 26s.; shipment, 24s. 6d., c.i.f. Brazilian spot, 12s. 6d.; shipment, March–April, 11s. 9d., c.i.f. *Piperita:* Italian, 48s. per lb., spot nominal; shipment new crop, upwards of 60s. for best oil asked. American from 28s. to 30s. per lb. as to make.

PINE. — *Pumilionis* 32s. per lb.; *sylvestris*, 9s., *abietis*, 15s.

ROSEMARY.—Spanish is 9s. 3d. per lb. on the spot for best quality.

RUE.—Spanish is 23s. 6d. per lb. spot.

SAGE.—Spanish 8s. 6d. per lb., Dalmatian, 23s.

SANDALWOOD. — Spot, 145s. per lb.; forward, East Indian, 136s., c.i.f.

SASSAFRAS. — Brazilian is from 2s. 3d. per lb., duty paid.

SPEARMINT.—American oil on the spot 28s. per lb.

TANGERINE.—From 30s. per lb.

VETIVERT. — Bourbon spot, 95s. to 105s. per lb.; shipment, 95s., c.i.f.

UNITED STATES REPORT

NEW YORK, APRIL 3: A 25-cent decline in Brazilian MENTHOL brought the price down to $5·10 a lb. Lower in CRUDE DRUGS were STYRAX at $4, down 20 cents; COPAIBA BALSAM at 78 cents, down two cents, and Mexican SARSAPARILLA at 32 cents, down two cents. NUTMEG OIL was increased by 50 cents to $9 a lb. while Peruvian BOIS DE ROSE rose by five cents to $2·25. Lower per lb. were natural PEPPERMINT at $3·40, down 10 cents, and Bourbon GERANIUM at $21·50, down 50 cents.

NOTES ON NEW MEDICAMENTS

ACDERM.—*Constituents:* Sulphur, phenazone, triethanolamine, propylene glycol and solution of sulphœstrol. The base is formulated as a penetrating vehicle to promote access of the sulphur to affected areas of the skin. Acnil and Eskamel contain sulphur together with resorcin; Dermasulf contains sulphur in the form of polythionates; in Pragmatar sulphur and salicylic acid are associated with a distillate of coal tar.

B-CORLAN.—*Chemistry:* Betamethasone disodium phosphate. This derivative is soluble in water, and in the form of pellets enables an adequate concentration to be reached in oral mucosa. Another oral steroid preparation is Corlan, which contains hydrocortisone sodium succinate.

DANTROL.—*Constituents:* Salicylic acid, chlorocresol, lecithin and cholesterol. This product, for the treatment of dandruff, contains two substances normally present in the sebaceous glands, i.e. lecithin and cholesterol. Salicylic acid has a keratolytic action and cholesterol is included for its antiseptic properties. Salicylic acid is a constituent of many skin preparations where removal of cellular debris and squama is required.

ELASE.—*Constituents:* Fibrinolysin and desoxyribonuclease. Those substances are lytic enzymes: the former dissolves the fibrin of exudates and necrotic tissues, and the latter breaks down the desoxyribonucleic acid present. The combined action results in a rapid dissolution of necrotic tissue in wounds, and of exudates from the skin and mucous membranes. Other enzyme products for the debridement of necrotic tissues include Tryptar, Chymar and Trypure, all containing purified forms of trypsin; and Dornase and Varidase, which are preparations of bacterial enzymes.

FEOSPAN. — *Constituents:* Exsiccated ferrous sulphate and aneurine. Ferrous sulphate is one of the most effective hæmatinics but gastric irritant effects sometimes limit its use. Feospan represents an attempt to avoid those irritant effects by presenting the drug in the form of coated and slowly absorbed granules. Ferrous sulphate and vitamin C are also available as simple sugar-coated granules under the name Ferro-Redoxon. Some liquid preparations of ferrous sulphate and vitamins are also available; for example, Feravol Syrup, Pleniron and Plesmet contain a complex of ferrous sulphate with aminoacetic acid.

FULCIN FORTE.—*Constituent:* Griseofulvin. This antibiotic has no antibacterial action but is one of the few that have significant antifungal properties. When taken orally, the drug is absorbed and deposited in part in the skin and is thus effective in the treatment of superficial fungal infections. The action appears to be limited to those fungi that have chitin as a constituent of cell walls, because those with cellulose walls are unaffected. The rate of absorption of griseofulvin can be increased by its use as a very fine powder. In Fulcin Forte the reduction in particle size has permitted the dose to be halved without any reduction in the therapeutic response. Griseofulvin in fine powder is also available as Grisovin F.P.

GANTANOL.—*Chemistry:* 5-methyl-3-sulphanilamidoisoxazole, This compound is closely related to sulphafurazole, from which it differs in the absence of a methyl group and a change in the position of the sulphonamide group. Those alterations are reflected in the increased activity of the drug and its slower rate of excretion—twice daily administration is adequate. Other slowly excreted sulphonamide derivatives are represented by sulphadimethoxine (Madribon), sulphamethoxypyridazine (Lederkyn, Midicel) and sulphaphenazole (Orisulf). Bimez and Dosulfin are examples of mixed sulphonamide products with an extended action.

LIBRIUM.—*Chemistry:* 7-chloro-2-methylamino-5-phenyl-3H-benzo-1-4-diazepine-4-oxide, also known as chlordiazepoxide. This psychotherapeutic compound is chemically unrelated to the phenothiazine-derived drugs and differs pharmacologically from the amine-oxidase inhibitors. Other drugs with psychotherapeutic properties distinct from those above include imipramine (Trofranil), amitriptyline (Laroxyl, Saroten, Tryptizol) and chlorprothixene (Taractan).

LINGRAINE.—*Chemistry:* Ergotamine tartrate. This alkaloid of ergot has proved of value in the treatment of migraine, but nausea and vomiting often limit the administration of an adequate dose. In Lingraine, the drug has been formulated for use as a sublingual tablet in order to produce a rapid vasoconstrictor action even when vomiting is present. Ergotamine tartrate is also available as Femergin, and is present with caffeine in Cafergot and Cafergot-Q. Migril contains the alkaloid with caffeine and the anti-emetic cyclizine, and Orgraine contains ergotamine, caffeine, atropine, hyoscyamine and phenacetin. In Bellergal, ergotamine and belladonna alkaloids are present with phenobarbitone.

LOCAN-PRED. — *Constituents:* Prednisolone, amethocaine, amylocaine, bismuth subnitrate and zinc oxide. Prednisolone is one of the most useful of the topically-active anti-inflammatory steroids. Amethocaine and amylocaine are local anæsthetics, but in Locan literature reference is made to their bactericidal, fungicidal and trichomonacidal properties. Bismuth subnitrate and zinc oxide have a mild astringent and protective action. Another suppository product containing prednisolone is Scheriproct, in which cinchocaine, hexachlorophene and clemizole are also present. Predsol suppositories contain prednisolone as the water-soluble disodium phosphate derivative.

METHOTREXATE. — *Chemistry:* 4-amino-N^{10} methyl-pteroyl-glutamic acid. Methotrexate is a "folic acid antagonist." Folic acid plays an essential part in nucleic acid metabolism, and methotrexate, acting as an anti-metabolite, can block that metabolic process, cause a folic acid deficiency, and so arrest cell division. Other folic-acid antagonists used therapeutically include aminopterin and mercaptopurine (Purinethol).

PENSPEK.—*Chemistry:* Potassium phenoxybenzyl penicillin (phenbenicillin). This compound is a semi-synthetic derivative of penicillin and is marked by a high degree of stability. The antibacterial activity is intermediate between that of soluble penicillin G and penicillin V, and exceptionally high blood levels are obtained following oral administration. Because the drug is not rapidly excreted those high blood levels are easily maintained. Other orally active penicillin compounds include phenethicillin (Broxil), ampicillin (Penbritin), propicillin (Ultrapen, Brocillin) and phenoxymethyl penicillin (penicillin V).

PIXCYL H.C.—*Constituents:* Hydrocortisone acetate and purified fractions of coal tar. The tar fractions represent a non-staining therapeutic equivalent of crude coal tar, and the antipruritic action is extended by admixture with hydrocortisone. Tarcortin is formulated on similar lines, and contains a non-staining tar extract in association with hydrocortisone.

SEBACLEN.—*Chemistry:* 2-dicthylaminoethyl-2-hydroxy-3-phenyl benzoate hydrochloride. This compound has a wide range of antibacterial and antifungal activity, and is described as a clinically effective anti-seborrhœic agent. It is purely an organic compound, and thus differs from the selenium-containing products (Lenium, Selsun) and the sulphur derivatives exemplified by Dermasulf.

SOFRACORT SKIN SPRAY. — *Constituents:* Soframycin, gramicidin and hydrocortisone. Soframycin (framycetin) is an antibiotic with a wide range of activity and a low sensitisation index; gramicidin is active against the Gram-positive coccal organisms. When associated with hydrocortisone, the combination is effective in a wide range of inflamed and infected skin conditions. Other spray products formulated on a similar pharmacological basis include Adcortyl (triamcinolone acetonide, gramicidin and neomycin), Betnesol-N (betamethasone and neomycin), Decaspray (dexamethasone and neomycin), Efcortelan-N (hydrocortisone and neomycin), Predsol-N (prednisolone disodium phosphate and neomycin) and Terracortril (hydrocortisone and oxytetracycline).

T.H.A.—*Chemistry:* 1:2:3:4-tetrahydro-5-aminoacridine, also referred to as tetrahydroaminacrine or tacrine. Although related to the acridine antiseptics, tacrine, also available as Romotal, has no antibacterial properties but has a stimulant action on respiration and also on the myocardium, or heart muscle. When respiratory depression is secondary to the administration of analgesics such as morphine, tacrine can stimulate respiration without loss of the analgesic action. Advantage of this is taken in the formulation of Mortha, which contains both morphine and tacrine. Romorphal also contains morphine and tacrine. Another combined product of analgesic and stimulant is Pethilorfan, which contains pethidine and levallorphan. The latter is also available as Lorfan; nalorphine (Lethidrone) has similar respiratory stimulant properties.

THIO-TEPA.—*Chemistry:* NN^1N^2 triethylene thiophosphoramide. This compound is related to mustine (nitrogen mustard) and has a mitotic action on dividing cells, probably by the release of ethylenimine radicals. A number of alkylating agents of that type have been synthesised but many are too toxic for clinical use. In Thiotepa some of those effects have been reduced but, as the drug affects dividing cells, it will have some toxic effect on the blood-forming elements of the bone marrow. Cyclophosphamide (Endoxan) and mannomustine (Degranol) represent other products with an action similar to that of mustine, and other cytostatic compounds include busulphan (Myleran), chlorambucil (Leukeran), mercaptopurine (Purinethol), aminopterin and methotrexate.

TOLNATE.—*Chemistry:* 10-dimethylamino propyl-1-azaphenothiazine, or prothipendyl. This compound is related chemically to the other phenothiazine-derived tranquillising drugs. It has the same side chain as promazine, but the three-ring nucleus differs in having another nitrogen in the 1-position; and the drug may be regarded as a derivative of diaza-anthracene.

PRINT AND PUBLICITY

PUBLICATIONS

Booklets and Leaflets

LAPORTE TITANIUM, LTD., 1 New Bond Street, London, W.1: Titanium oxide pigments. Pp. 20.

TRUFOOD, LTD., 113 Newington Causeway, London, S.E.1: Illustrated counter leaflet for Spoonfoods and Trufood junior foods. Pp. 4.

UNITED GLASS, LTD., Leicester House, Leicester Square, London, W.C.2: "United Glass and the Housewife." Pp. 20.

WHIFFEN & SONS, LTD., Loughborough, Leics: "Maleic hydrazide"—technical bulletin No. 61/2. Pp. 8.

Periodicals

BRUCE, STARKE & CO., LTD., 5 Fenchurch Street, London, E.C.3: *Dragoco Report*, No. 2, 1962. Pp. 20.

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: *The Roche Courier*. Vol. 28, No. 2. Pp. 4.

PRESS ADVERTISING

ROBINSON & SONS, LTD., Wheat Bridge Mills, Chesterfield: Nikini. In women's magazines.

RONSON PRODUCTS, LTD., 352 Strand, London, W.C.2: Ronson electric razor. In *Daily Express*, *Daily Mirror*, *Daily Herald*, Glasgow *Daily Record*, *Belfast Telegraph*.

TONI CO., 100 Brompton Road, London, S.W.3: Toni home perms. In *Daily Mirror*, women's magazines.

WRIGHT, LAYMAN & UMNEY, LTD., 42 Southwark Street, London, S.E.1: Wright's coal tar soap. In national and provincial Press.

DISPLAY MATERIAL

COLGATE-PALMOLIVE, LTD., 76 Oxford Street, London, W.1: Cadum soap. Window stickers, showcards, floor display drums (with entry forms for "cover girl" contest).

HEATH & HEATHER, LTD., St. Albans, Herts: Cafdan dandelion coffee; 12a incontinence of urine treatment—showcards.

ILFORD, LTD., Ilford, Essex: New range of films—counter dispensers, with 8-page booklets on photography.

LAUGHTON & SONS, LTD., Warstock Road, Birmingham, 14: Lady Jayne dispenser unit.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, April 8

ROMEORD BRANCH, PHARMACEUTICAL SOCIETY. Warren golf club, at 2 p.m. Annual golf tournament.

Monday, April 9

FOOD GROUP, SOCIETY OE CHEMICAL INDUSTRY, and ROYAL SOCIETY OF HEALTH, Spa theatre, Searborough, at 2.30 p.m. Joint meeting on "Additives and Food Safety."

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Roxborough hotel, Harrow, at 8 p.m. Annual meeting. Diseussion of motions and amendments for Braneh Representatives' meeting. Mr. J. Carey on "Malaya."

HENDON AND EDGWARE BRANCH, PHARMACEUTICAL SOCIETY, Hendon Hall hotel, Ashley Lane, London, N.W.4, at 8 p.m. Annual meeting.

NORTH LONDON PHARMACEUTICAL ASSOCIATION AND BRANCH, Beale's restaurant, 368 Holloway Road, London, N.7, at 7.45 p.m. Mr. R. C. Harris (technical director, Swallowfield Aerosols, Ltd.) on "Aerosols."

PESTICIDES GROUP, SOCIETY OE CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 5.30 p.m. Annual meeting. Mr. G. L. Baldit on "The Chemist in Crop Protection."

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY. Unicorn hotel, Gidea Park, Essex, at 7.45 p.m. Annual meeting.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon hotel, Southampton, at 7.30 p.m. Annual meeting.

SOUTHPORT BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, Southport, at 7.45 p.m. Annual meeting.

WEMBLEY BRANCH, PHARMACEUTICAL SOCIETY, Town Hall, Wembley, at 8 p.m. Annual meeting.

WEST MIDDLESEX BRANCH, PHARMACEUTICAL SOCIETY, Town Hall, Ealing Broadway, London, W.5, at 8 p.m. Annual meeting and members' night.

Tuesday, April 10

AYRSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Parkstone hotel, Prestwiek, at 7.30 p.m. Annual meeting.

CHEMICAL ENGINEERING GROUP, SOCIETY OE CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6 p.m. Dr. R. Westwater on "Industrial Applieations of Explosives."

DONCASTER BRANCH, PHARMACEUTICAL SOCIETY, Ivanhoe hotel, Sprotborough, at 8 p.m. Seientific film evening.

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Marlboro Café, 1A Oxford Street, Harrogate, at 7.30 p.m. Annual meeting.

INDUSTRIAL WATER AND EEELUENTS GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 10 a.m. Symposium on "Reuse of Water in Industry."

MANCHESTER SECTION, SOCIETY OF CHEMICAL INDUSTRY, Manchester College of Science and Tcchnology, at 10 a.m. Symposium on "Newer Physical Methods of Struetural Investigation."

PRESTON PHARMACISTS' ASSOCIATION, County club, Winckley Square, Preston, at 7.45 p.m. Annual meeting.

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION AND BRANCH. Prince of Orange hotel, 189 Greenwich High Road, London, S.E.10, at 8 p.m. Mr. H. E. Dale (medical research department, Boots Pure Drug Co., Ltd.) on "Subjeets of Topical Medieal Interest."

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Golden Lion hotel, King Street, South Shields, at 7.30 p.m. Annual meeting.

WEST HAM ASSOCIATION OF PHARMACISTS AND EAST METROPOLITAN BRANCH, Swan hotel, Stratford, at 8 p.m. Annual meeting. Mr. K. Holland (Macarthys, Ltd.) on "The Problem of Pharmaceutieal Distribution."

Wednesday, April 11

BATH BRANCH, PHARMACEUTICAL SOCIETY, Pump Room, Bath, at 8 p.m. Annual meeting.

COVENTRY AND WARWICKSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Craven Arms hotel, Coventry, at 8 p.m. Annual meeting.

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 142A St. Vincent Street, Glasgow, C.2, at 7.45 p.m. Annual meeting.

NATIONAL COLLEGE OF RUBBER TECHNOLOGY, Holloway Road, London, N.7, at 9.30 a.m. Symposium on "Factice as an Aid to Produetivity."

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Annual meeting.

ROAD AND BUILDING MATERIALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6 p.m. Dr. F. M. Lea (director, Building Research Station, D.S.I.R.) on "Development in Building Materials—Prospect for the Future."

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, Mackworth hotel eafé, Swansea, at 7.45 p.m. Members' night. Buffet.

Thursday, April 12

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY, Imperial hotel, Blackpool, at 7.45 p.m. Annual meeting.

BRADEORD BRANCH, NATIONAL PHARMACEUTICAL UNION, Alexandra hotel, Bradford, at 7.45 p.m. Dinner and danee.

BRITISH MEDICAL ASSOCIATION, Newport, Mon. Annual elinieal meeting. (Until April 15.)

BURNLEY BRANCH, PHARMACEUTICAL SOCIETY, Cross Keys hotel, St. James Street, Burnley, at 7.45 p.m. Annual meeting.

DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, Three Tuns hotel, New Elvet, Durham, at 7.45 p.m. Annual meeting.

EAST CUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, County hotel, Carlisle, at 7.30 p.m. Annual meeting, followed by the film, "For More Tomorrows."

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY. Coach leaves North Finehley at 1.40 p.m. Visit to the laboratories and plant of Merck, Sharp & Dohme, Ltd., Hoddesdon, Herts.

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, lecture theatre, pharmacy department, Royal College of Seience and Technology, George Street, Glasgow, C.1, at 7.45 p.m. Photography eourse. Talk on "Colour Negative Materials."

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY. Sun hotel, Hansworth Road, Hounslow, at 8 p.m. Annual meeting.

ISLE OF WIGHT BRANCH, PHARMACEUTICAL SOCIETY, Bugle hotel, Newport, at 7.30 p.m. Annual meeting.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Strafford Arms hotel, Leeds, at 8 p.m. Mr. J. E. Kilburn on "Scenes and Stories from the Yorkshire Dales."

MANCHESTER PHARMACEUTICAL ASSOCIATION AND BRANCH, leeture hall, Literary and Philosophieal Society, 36 George Street, Manehester, at 7.45 p.m. Annual meeting.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Royal Beech hotel, Portsmouth, at 7.45 p.m. Film and demonstration on "Perfume."

PROPRIETARY ARTICLES TRADE ASSOCIATION, Connaught Rooms, Great Queen Street, London, W.C.2, at 3 p.m. Annual meeting.

READING BRANCH, PHARMACEUTICAL SOCIETY, George hotel, Reading, at 8 p.m. Dr. K. R. Capper on "The British National Formulary."

ROYAL SOCIETY, Burlington House, London, W.1, at 4.30 p.m. Mr. R. Couteaux on "The Differentiation of Synaptie Areas."

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, Slough, at 8 p.m. Annual meeting.

SOMERSET BRANCHES, PHARMACEUTICAL SOCIETY AND NATIONAL PHARMACEUTICAL UNION, Moor's café, St. James Street, Taunton, At 3.15 p.m. annual meeting of N.P.U. Braneh; at 5.15 p.m. tea; at 6.30 p.m. annual meeting of Pharmaceutical Society Branch and election of Branch Representatives; at 7.30 p.m. joint meeting. Mr. J. C. Bloomfield (a member of Council) on "The Report of the Committee on the General Practice of Pharmacy."

COMMERCIAL TELEVISION

Figures in the columns represent number of appearances of the product during the week

April 15-21	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward	Border	Grampian	Eireann
4711 eau de Cologne	—	—	—	—	—	2	—	—	—	—	—	—	—
Alka Seltzer	2	—	1	—	2	2	2	1	2	2	2	2	1
Anadin	5	4	5	4	4	4	4	—	1	4	4	4	—
Andrews "liver salt"	2	2	2	2	2	2	2	2	2	2	2	2	—
Askit powders	—	—	—	14	—	—	—	—	7	—	7	—	2
Aspro	—	—	—	—	—	—	—	—	—	—	—	—	2
Cooper's sprays	1	1	1	1	1	1	1	2	1	1	1	1	—
Cuticura	—	2	—	2	—	—	2	—	2	—	—	—	—
Delsey	—	—	2	—	—	—	1	—	—	—	—	—	—
Dentu-Creme	—	—	—	—	—	1	—	—	—	—	—	—	—
Domestos	3	4	4	4	3	3	3	3	3	3	3	3	—
Dr. Wernets powder	3	—	—	—	—	—	2	1	—	—	—	—	—
Euthymol tooth-paste	—	—	—	—	—	—	—	—	1	2	2	3	—
Hedex	—	—	—	—	—	—	3	—	—	—	—	—	—
Imperial Leather soap	4	1	2	2	3	3	3	2	2	2	3	3	—
Kruschen salts	—	—	—	—	—	—	—	—	—	—	—	—	2
Lifeguard	—	—	—	—	—	—	—	—	—	—	—	—	1
Limmits	3	2	3	4	3	3	3	2	3	4	3	2	—
Max Factor	2	2	2	1	3	3	2	2	2	2	2	2	—
Milk of Magnesia tablets	2	2	2	4	2	2	2	3	2	3	2	2	—
Moorland tablets	—	—	—	2	—	—	—	2	—	—	—	—	—
Panets	1	1	1	—	—	—	—	—	1	—	—	—	1
Poli-Grip	—	—	—	1	—	—	—	—	—	—	—	—	—
Pretty Quiek	1	—	—	1	2	1	1	1	1	1	1	—	—
Radox	—	—	—	—	—	—	—	—	1	—	—	—	1
Rennies	—	—	—	—	—	—	—	—	2	—	—	—	1
Rimmel "beauty on a budget"	1	1	1	1	1	1	1	1	—	1	—	—	—
Rinstead pastilles	1	—	—	—	—	—	—	—	—	—	1	—	—
Ronson electric razors	—	1	1	1	1	1	1	1	1	1	1	1	1
Sebbix	1	1	1	—	—	—	—	—	—	—	—	—	—
Shavex	—	—	—	—	—	—	—	—	—	—	—	—	4
Tru-gel	—	—	—	—	—	—	—	—	—	—	—	—	1
T-Zone	—	—	—	—	—	2	—	—	—	—	—	—	—
Virol	—	—	—	—	—	—	—	—	—	—	—	—	2
VO-5 hair spray	3	—	2	—	—	—	—	—	—	—	—	—	—
conditioner	2	2	2	1	—	—	—	—	—	—	—	—	—
Wright's coal tar soap	1	—	—	—	—	—	—	—	—	—	—	—	—

Friday, April 13

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Royal Clarence hotel, Exeter, at 7.45 p.m. Annual meeting.

SOUTHEND-ON-SEA BRANCH, PHARMACEUTICAL SOCIETY, Queen's hotel, Westcliff-on-Sea, at 8 p.m. Annual meeting.

ST. ANDREWS AND DUNDEE SECTION, CHEMICAL SOCIETY, chemistry department, St. Salvators College, St. Andrews, at 5.15 p.m. Dr. F. L. Rose on "Chemotherapy and the Organic Chemist."

Saturday, April 14

NOTTINGHAM BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Mechanics' Institute, Burton Street, Nottingham, at 7.30 p.m. National annual meeting.

Advance Information

BRUSSELS INTERNATIONAL FAIR, Palais du Centenaire, Brussels, Belgium, April 26 to May 9.

CHEMICAL SOCIETY and HATFIELD COLLEGE OF TECHNOLOGY, Hatfield, Herts. Symposium on nitrogen heterocyclic chemistry, May 10-11.

LABORATORY APPARATUS AND MATERIALS EXHIBITION, Harrogate, Yorks, May 14-18.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED
From the "Official Journal (Patents)," March 28, 1962

Solutions, tinctures and compositions of matter for the care of teeth and mouth which contain fluoride of organic bases or amphoteric compounds. Gaba, A.G. 896,257.

Antibiotics. Chas. Pfizer & Co., Inc. 896,279.

Antibacterial 4-(5¹-nitro-2¹-furyl) thiazoles. Abbott Laboratories. 896,495.

Derivatives of paromomycin and methods for their production. Parke, Davis & Co. 896,774.

Process of preparing 4-hydroxy-3-keto-4-androstenes. Soc. Farmaceutici Italia. 896,286.

Salts of organic acids. Olin Mathieson Chemical Corporation. 896,508.

Preparation of glucosaccharolactone salts. Pfizer, Ltd. 896,724.

Steroids and their synthesis. Olin Mathieson Chemical Corporation. 896,596.

Theophyllin compounds and their production. Wulfing & Co., G.m.b.H., 896,787.

Sulphonyl ureas and the manufacture thereof. Wellcome Foundation, Ltd. 896,303.

Stilbene derivatives and process for their manufacture. Sandoz, Ltd. 896,264-533.

Bis(hidroxyphenyl-carboxylic acid ester)methanes. Farbenfabriken Bayer, A.G. 896,265.

Steroids and the manufacture thereof. Upjohn Co. 896,817.

Preparation of acetyl salicylic acid. Norwich Pharmacal Co. 896,715.

Oxytetracycline ester and preparation thereof. Chas. Pfizer & Co., Inc. 896,452.

Water-soluble salts of heterocyclic compounds. Farbenfabriken Bayer, A.G. 896,846.

Methods of preparing ortho-disubstituted p-aminobenzoic acid derivatives. Laaketehdas Orion Oy. 896,720.

Derivatives of 3:4-dihydro-1:2:4-benzothiadiazine-1:1-dioxide and process for their manufacture. CIBA, Ltd. 896,721.

Therapeutically valuable steroid and its formation. Laboratories Français de Chimiotherapie. 896,697.

Steroids and the manufacture thereof. Upjohn Co. 896,818.

Ethenyl alkyl sulphones and pesticidal compositions containing them. Chemagro Corporation. 896,373.

Production of virus vaccine for canine distemper. American Cyanamid Co. 896,446.

Synthetic resins, articles made therefrom or coated therewith and synthetic resin coating compositions, having fungicidal and bacterial surfaces. Farbenfabriken Bayer, A.G. 896,454.

Conditioned ammonium bicarbonate fertilizer. Fertilisers & Chemicals, Ltd. 896,284.

Apparatus for relieving pain and discomfort. Bolt, Beranek & Newman, Inc., and W. J. Gardner. 896,423.

British patent specifications are obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Building, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," March 21

For all goods (1) *and* (5)
MURGANIC, 828,266-27, by Murphy Chemical Co., Ltd., Wheathampstead, Herts.

For pharmaceutical preparations and substances for human and veterinary use (5)
LOPRESOR, 826,548, by CIBA, Ltd., Basle, Switzerland.

For radiological contrast media (5)
CONTRASIL, 824,461, by Glaxo Laboratories, Ltd., Greenford, Middlesex.

For all goods (5)
CALOSTAN, KALOSTAN, 815,754-55, by Roche Products, Ltd., Welwyn Garden City, Herts. Device, B820,818, by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts. CIDEX, 822,180, by Ethicon, Inc., Bridgewater Township, New Jersey, U.S.A. LUBRITEX, 824,497, by Basoderm Dermatologische und Pharmazeutische Spezialpräparate, G.m.b.H., Biberach on the Riss, Germany. EBIFACT, 828,225, by Evans Medical, Ltd., Speke, Liverpool, 24. TARPANE, TARPANUM, 828,785-86, by Dr. A. Wander, S.A., Berne, Switzerland. PERVETRAL 829,233, by Chemiewerk Homburg Zweigniederlassung der Deutschen Gold und Silber-Scheideanstalt vormals Roessler, Frankfort/Main, Western Germany.

For all goods, but not including medicated bath preparations, bath salts for medical purposes or medicated confectionery (5)
Device with word BROCADES, 815,916, by N.V. Koninklijke Pharmaceutische Fabrieken V/H Brocades-Stheeman & Pharmacia, Amsterdam, Holland.

For pharmaceutical preparations and substances (5)
THE-AN, 819,094, by A.B. Astra, Apotekarnes Kemiske Fabriker, Södertalje, Sweden. HIBOVEX, OVOCEPT, 829,128-29, by Leo Laboratories, Ltd., London, W.1.

For pharmaceutical preparations and substances for human and veterinary use; and sanitary substances and disinfectants (5)
ALDERCYN, 823,350, by Imperial Chemical Industries, Ltd., London, S.W.1.

For veterinary preparations (5)
PORCOSAN, 826,042, by International Serum Co., Ltd., London, N.W.7.

For laxatives containing prune extracts (5)
PRUNEXA, 827,599, by Optrex, Ltd., Perivale, Greenford, Middlesex.

For photographic apparatus and instruments; objectives (lenses) for photographic cameras, projection apparatus, microscopes, telescopes and field glasses; and field glasses, microscopes, microphotographic apparatus, cinematographic cameras, and projection apparatus (photographic and cinematographic) (9)
CINOVID, 828,954, VISOFLEX, 828,961, by Ernst Leitz, G.m.b.H., Wetzlar, Germany.

For photographic apparatus and instruments; objectives (lenses) for photographic cameras, projection apparatus, microscopes, telescopes and for field glasses; and telescopes, microscopes, cinematographic cameras, and projection apparatus (photographic and cinematographic) (9)
DYGON, 828,955, by Ernst Leitz, G.m.b.H., Wetzlar, Germany.

For corsets, kneecaps, stockings, anklets, belts, wristlets, arch-supports, and elbow-supports, all for surgical or curative purposes (10)
LASTOLITA, 828,171, by John Heathcoat & Co., Ltd., Tiverton, Devon.

For vacuum flasks; heat insulated vessels; and containers for use with the aforesaid goods (21)
ALADDIN, 824,180, by Aladdin Industries, Ltd., Greenford, Middlesex.

For medicinal and veterinary preparations containing iron for use in the inhibition and treatment of iron deficiency anæmia and vitamin deficiencies (5)
CEBROFERRIN, 827,366, by Eli Lilly & Co., Indianapolis, Indiana, U.S.A.

For non-medicated preparations for the hair; lacquer and lacquer removers, all being non-medicated toilet preparations (3)
LAC-REX, 828,830, by Thames Industries, Ltd., London, N.W.2.

From the "Trade Marks Journal," March 28

For cosmetic preparations (3)
Device, 818,003, by Old Forest House Remedies. London, W.C.2.

For perfumes, non-medicated toilet preparations and soaps (3)
JOAN THE WAD, 822,824, by Frederick Thomas Nettleinghame, Polperro, Cornwall.

For cosmetic preparations, the produce of Switzerland (3)
MAVALASUISSE, 822,947, by Anstalt Dynos, Vaduz, Leichtenstein.

For preparations for the hair (3)
CLYNOL TOPSET, 824,744, by Clynol, Ltd., London, W.1.

For pharmaceutical, medicinal and veterinary preparations (5)
STOCKMASTER, B810,368, by Irish Drug, Ltd., Lifford, Donegal, Republic of Ireland.

For pharmaceutical preparations principally of acetylsalicylic acid (5)
CE-K-SAL, B793,147, by Paines & Byrne, Ltd., Perivale, Greenford, Middlesex.

For weed-killing preparations, fungicides and insecticides, all prepared for use by spraying (5)
DALSPRAY, 818,918, by Borax Consolidated, Ltd., London, S.W.1.

For pharmaceutical preparations and substances (5)
LINGRAINE, 824,479, by Winthrop Group, Ltd., Surbiton, Surrey. SOFRA, 826,485, by Les Laboratoires Français de Chimiotherapie, S.A., Paris 7e, France. TENAVOID, 828,726, by Leo Laboratories, Ltd., London, W.1.

For medicated toilet paper, sanitary towels and tampons, and sanitary pads for use with babies' napkins (5)
HAKLE, 824,529, by Haklewerke Hans Klenk, Mainz, Rhine, Germany.

For all goods (5)
DICUMOXANE, 824,741, by M.C.P. Pure Drugs, Ltd., London, W.C.2.

For pharmaceutical preparations (5)
INFLUVAC, 825,616, by N.V. Philips-Duphar, Amsterdam, Holland.

For insecticides and weed killers (5)
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For preparations for killing plants and destroying vermin; pesticides and parasiticides, insecticides, miticides, fungicides, bactericides, and nematocides (5)
ZECTRAN, 827,175, by Dow Chemical Co., Midland, Michigan, U.S.A.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals

THENIUM *p*-CHLOROBENZINE SULPHONATE AND PIPERAZINE. The efficiency of mixtures of, against hookworms and roundworms of the dog. *Vet. Rec.*, March 31.

A NEUROMUSCULAR BLOCKING AGENT. The use of, on domestic cattle. *Vet. Rec.*, March 31.

VITAMIN D_3 and the STEROID HORMONES. *Vet. Rec.*, March 31.

AMODIAQUINE. Nearly fatal reaction to. *J. Amer. med. Ass.*, February 24.

BRETYLIUM TOSYLATE in treatment of severe hypertension. *Brit. med. J.*, March 31.

GUANETHIDINE in hypertension. *Brit. med. J.*, March 31.

CHLOROQUINE-INDUCED retinal damage. Two cases of. *Brit. med. J.*, March 31.

AMODIAQUINE HYDROCHLORIDE in the treatment of chronic discoid lupus erythematosus. *Lancet*, March 31.

AMODIAQUINE HYDROCHLORIDE. *Lancet*, March 31.

4-METHYLENEPROPINE: a new naturally occurring proline derivative. *Nature*, March 31.

OVINE GASTRIN. Isolation and assay of. *Nature*, March 31.

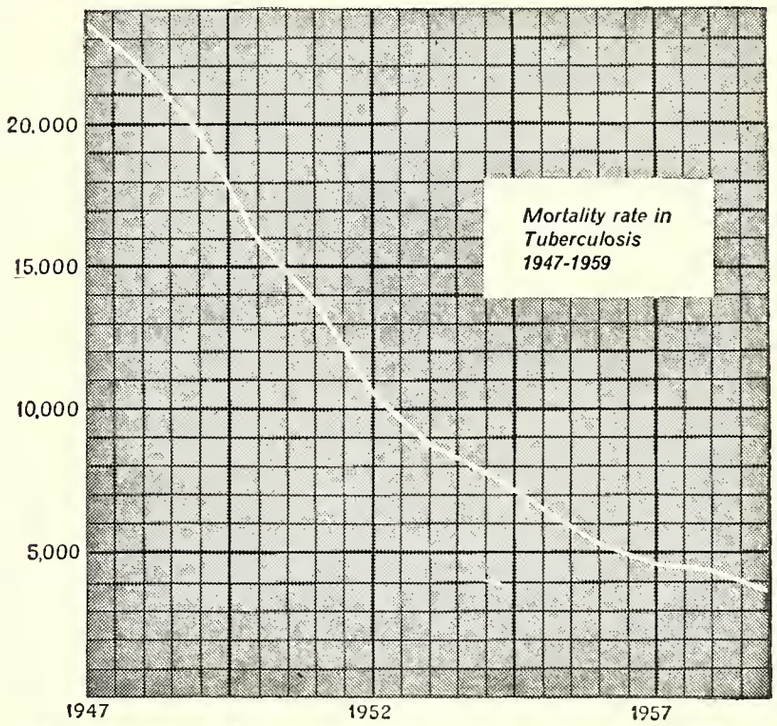
POISONS IN BLOOD. A rapid screening test for detection of. *Nature*, March 31.

HAIR-GROWTH. Mechanism of. *Nature*, March 31.

QUATERNARY AMMONIUM COMPOUNDS in medicinal chemistry. *J. Pharm. Pharmacol.*, April.

GRISEOFULVIN. Some factors influencing the absorption of, from the gastrointestinal tract. *J. Pharm. Pharmacol.*, April.

CARBON. The path of, in photosynthesis. *Science*, March 16.



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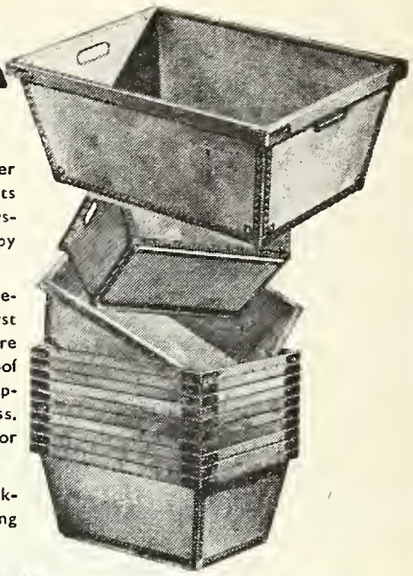
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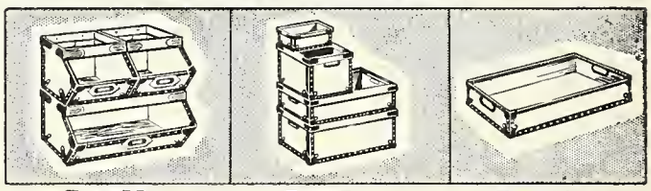


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Write for illustrated leaflet or ask our representative to call.

LURALDA LTD.
IBEX HOUSE, MINORIES, LONDON, E.C.3. Tel. ROYal 1852

GENUINE HAARLEM OIL
Broparco DUTCH DROPS

DUTCH DROPS		CAPSULES	
(1/-)	5/- per doz.	100's (4/10)	32/6 per doz.
1 oz. (1/6½)	8/4 per doz.	(2/4)	14/2 per doz.
2 oz. (2/6½)	12/6 per doz.		

P.O. BOX 353
BROOK, PARKER & CO. LTD., BRADFORD, 7

Stock up with . . .



SYNFOAM
SUPER
SPONGE

HONEYCOMB . ALL PURPOSE
FULLY SYNTHETIC

STANDARD SIZE Retail Price 2/11
LARGE SIZE Retail Price 3/10
GIANT SIZE Retail Price 6/1
USUAL DISCOUNTS

Each Sponge in a 3-coloured transparent sleeve. Each doz. in 4-coloured show carton. 12doz. in cardboard box.

Obtainable from YOUR USUAL WHOLESALER or contact :—

FLETCHER & FARLOW LTD.
Finsbury Court, Finsbury Pavement,
London, E.C.2 . *Tel : MONarch 6810*

"SYNFOAM SUPER"
SELLS ON SIGHT!

Nicobrevin
The Original
ANTI-SMOKING CAPSULES
MILLER OF GOLDEN SQUARE LTD.

A MODERN COURSE OF
PHOTOGRAPHIC STUDIES
By Dr. H. BAINES, F.R.I.C., F.I.B.P., Hon F.R.P.S.
and specialist collaborators

Lucidly imparts in orderly steps and with ample diagrams and illustrations the scientific, technical and other knowledge demanded of entrants to the examinations of the Photographic Dealers' Association.

Order direct from. PRICE 7/6. Postage 7d
THE CHEMIST & DRUGGIST
28 ESSEX STREET STRAND, LONDON, W.C.2


Are your
stocks
linked-up
with the
partnership?



What partnership

Wherever your business is situated, anywhere throughout Britain, you can take this for granted: better than one in every three women in your neighbourhood have one special link in common. They all read the weekly magazine 'Woman.'

That's a very fine profit insurance for you. You're certain of a sale for any product advertised in 'Woman.'

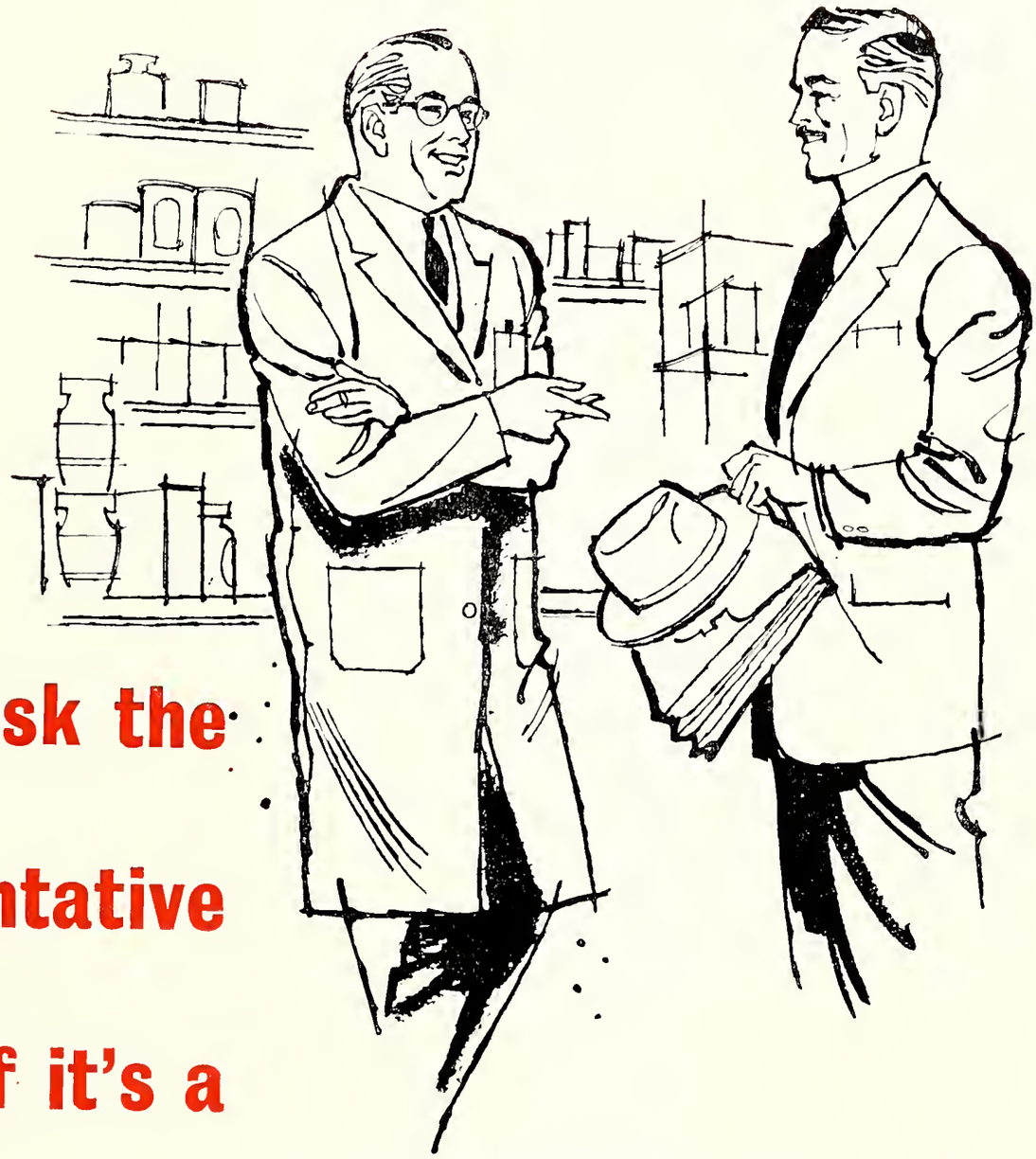
These 'Woman' women are so devoted to the magazine that we call them THE 'Woman' PARTNERSHIP—over 8,000,000 strong. They are really attached to 'Woman,' hook, line, and sinker. It's not a casual switch-on like TV; not a daily "husband's left-over" like a newspaper; but a real womanly get-together with no men present, which goes on for seven days of every week.

Quite a lot of them **must** shop with you. So every week they'll want 'Woman'-advertised goods. You have therefore a sure profit if you stock 'Woman'-advertised goods yourself. Link with the partnership and you link with assured sales.

Ask your wholesaler for partnership products

. . . those advertised in *Woman*

the most powerful weekly for women in the world



Ask the representative if it's a "partnership product"

Make sure that the goods in your pharmacy have the great sales force of 'Woman' behind them.

When the salesman steps into your shop for an order, ask him this vital question "Is it advertised in 'Woman'?" If he says "yes" you're on to a good thing because you've linked up with The 'Woman' Partnership—one of the great market groups to which one out of every three women in your neighbourhood belongs. 'Woman' may not seem a magic word to you. But it can shift the goods from your shelves like magic. So ask that representative. Put the vital question. It's a guarantee that the product will sell well.



This is 'Woman' which controls a weekly partnership of over 8,000,000 women customers who trust 'Woman' to tell them what to buy.

'Woman' has the biggest weekly sale of its kind in the world—over 3,000,000 copies which are read by 41% of all women in the country. *(July, 1960—June, 1961 I.P.A. Survey)*

The symbol below expresses the fact that 'Woman' is more than a magazine. It is a direct link with Britain's best customers who can only be influenced all **together** through its pages. We call products advertised there partnership products —they are sure sellers.



John Dennett, Advertisement Director,
ODHAMS PRESS LIMITED,
96/98 Long Acre, London, W.C.2.
Telephone: Temple Bar 2468 (100 lines)
Telegrams: Southernwood Rand, London

put

ferraniacolor

ferraniacolor

ferraniacolor

ferraniacolor

in your camera

Sole U.K. Distributors: NEVILLE BROWN & CO. LTD., LONDON W.1

C

Coming soon—BIG insecticide demand!



Now is the time to order extra stocks of insecticides containing

AFRICAN PYRETHRUM

With Spring and Summer approaching your customers will be asking for more and more insecticide aerosols and other dispensers.

A national advertising campaign sponsored by the Pyrethrum Board of Kenya, to be launched shortly in the Press and on TV, will bring even greater pressure to bear upon your supplies. A whole page in the Daily Mail April 26 sets the pace of the campaign.

A very large majority of the well-known insecticides you sell contain AFRICAN PYRETHRUM as an active ingredient.

AFRICAN PYRETHRUM has this unique combination of advantages:

- **INSECT RESISTANCE is NEGLIGIBLE**
- **SAFE to humans and animals**
- **CANNOT TAINT or damage foodstuffs**
- **KNOCKS DOWN insects rapidly**

Make sure your insecticide stock lines contain



AFRICAN PYRETHRUM

Contact your usual wholesaler NOW!

Issued by the Pyrethrum Board of Kenya on behalf of their sole U.K. distributors:

Biddle Sawyer & Co. Ltd., 2/4 Fitzroy Street, London W.1. Telephone: LANgham 7641

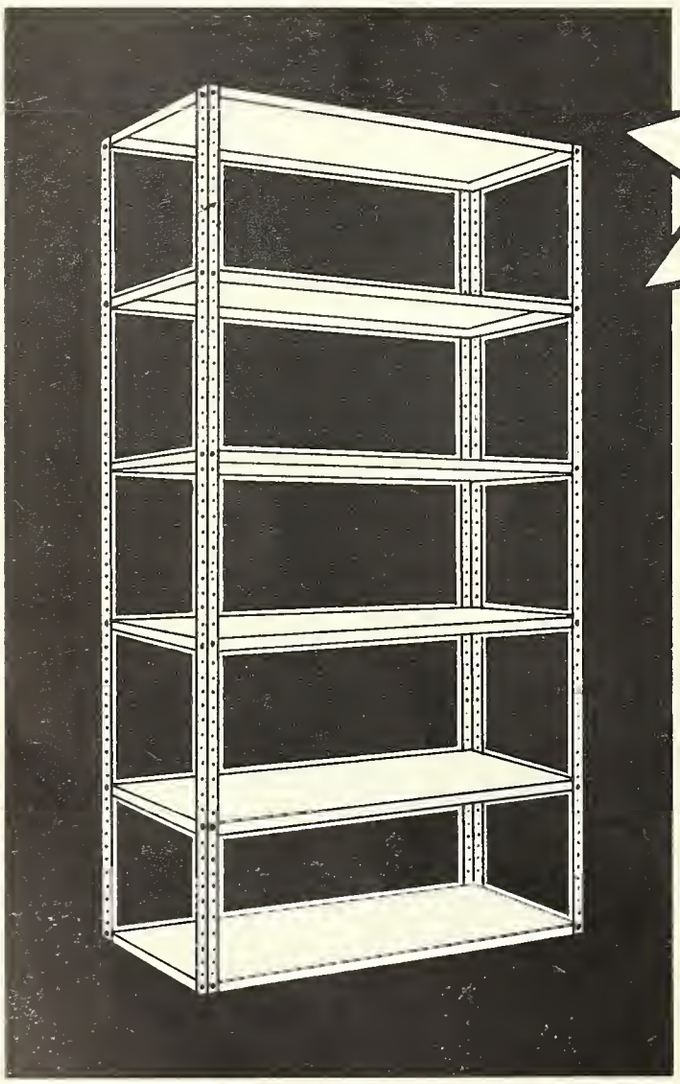
your customers want

The Film of The Year

ferraniacolor

Sole U.K. Distributors: NEVILLE BROWN & CO. LTD., LONDON W.1

THE
STRONGEST
WHITE
STEEL SHELVING AT THIS PRICE



£5-15-0
PER BAY

★ *Finished like a refrigerator in gleaming fresh whiteness . . .*

73" HIGH
34" WIDE
1' DEEP
SIX SHELVES!

* Extra shelves 11/6d. each.
* Brilliant, hardwearing Stove Enamel Finish.
* Shelves will carry up to 400 lb. distributed weight each.
* Shelves adjustable every inch.
* Satisfaction guaranteed or equipment replaced.
* Unassembled ready for erection.

DELIVERED FREE IN ENGLAND, SCOTLAND & WALES
COMPLETE IN SPECIAL PACK WITH EASY ASSEMBLY INSTRUCTION AND FREE BOX KEY.

Get yours now from Sole Manufacturers

N.C.BROWN LTD

Shelving Division, Heywood, Lancs. Tel: 69018

put

ferraniacolor

into every camera you sell

Sole U.K. Distributors: NEVILLE BROWN & CO. LTD., LONDON W.1

CANNON TEATS

nearest to natural feeding





7½D retail

THIS IS WHY

- Triple perforation for even, air-free flow
- Spiral reinforcement prevents softening or collapse
- Fewer new ones to break in because Cannon teats last longer

ORDER NOW TO ENSURE YOUR SHARE OF THE GROWING MARKET

FOR CANNON TEATS

THE CANNON RUBBER MANUFACTURERS LTD
ASHLEY ROAD · TOTTENHAM · LONDON N.17

just order ferraniacolor

- it is easy to sell
- easy to use
- gives natural colour results

Sole U.K. Distributors: NEVILLE BROWN & CO. LTD., LONDON W.1

ACNE

the despair of the young



At a time when personal appearance becomes very important, the young acne sufferer is acutely embarrassed by facial disfigurement. Companions add to this embarrassment by their youthful candour. Shy and withdrawn, the patient all too often lags behind or is 'odd man out' at social gatherings.
The pharmacist frequently has to advise young customers on a suitable preparation for acne treatment, and recommends 'Eskamel' because he knows it has been especially designed to help young people. The active ingredients in 'Eskamel' bring about rapid improvement of the condition, often in a few days, while its flesh-coloured base effectively conceals acne lesions. Recommend—

ESKAMEL

to assist healing and raise morale

Formula: resorcinol 2%, sulphur 8%, hexachlorophene 0.25%, w/w in a stable, grease-free, flesh-tinted base. Available in 1 oz. (28.4 g.) tubes.

Smith Kline & French Laboratories Ltd
Welwyn Garden City, Herts

'Eskamel' is a trade mark EM:TA12

Comfy HAIR ROLLERS

MAKE AN EYE-CATCHING DISPLAY

Already an immensely profitable line, Comfy Hair Rollers will sell even faster when customers see these colourful new counter display cartons. Sales of Comfy Rollers, especially those with the crystal nylon brush, are mounting daily. Don't miss the year-round demand this compelling display will create on your counter.

ORDER NOW FROM YOUR USUAL WHOLESALER



Planning a new product?

Launching a liquid product?

Thinking of strip packed medical samples?

MEDOPHARMA

TABLET · STRIP PACKING AND LIQUID FILLING SPECIALISTS

HAVE THE ANSWER TO YOUR PROBLEM HOME & EXPORT

MEDOPHARMA LTD · MANUFACTURING CHEMISTS · 158-162 TOOTING HIGH STREET · LONDON SW17

D



Getting him on his feet

'Distivit' is a peptide preparation specially made for oral administration of vitamin B_{12}. It is being widely prescribed, and recommended, when there is need to restore appetite and the general feeling of well-being.

'DISTIVIT'

'DISTIVIT' TABLETS		Trade prices.
20 mcg. tablets	Tube of 25	2s. 8d.
	Bottle of 100	8s. 8d.
100 mcg. tablets	Tube of 25	7s. 6d.
	Bottle of 100	21s. 10d.
	" " 500	100s. 6d.
1,000 mcg. tablets	Foil pack of 4	6s. 0d.
	Bottles of 50	55s. 0d.

'DISTIVIT' ELIXIR

Bottle of 4 fl. oz. (approx. 114 ml.) 3s. 0d.
" " 40 fl. oz. (approx. 1,136 ml.) 24s. 0d.

Each 3.5 ml. teaspoonful contains 20 mcg. vitamin B_{12} peptide.

Oral Vitamin B_{12} Peptide HASTENS RECOVERY

DCL THE DISTILLERS COMPANY (Biochemicals) LIMITED, Broadway House, The Broadway, Wimbledon, London, S.W.19
Telephone: LIBerty 6600 *Owners of the trade mark 'Distivit'* PPH2461

NOW!

GET SALES BY FEATURING THE POWERFUL

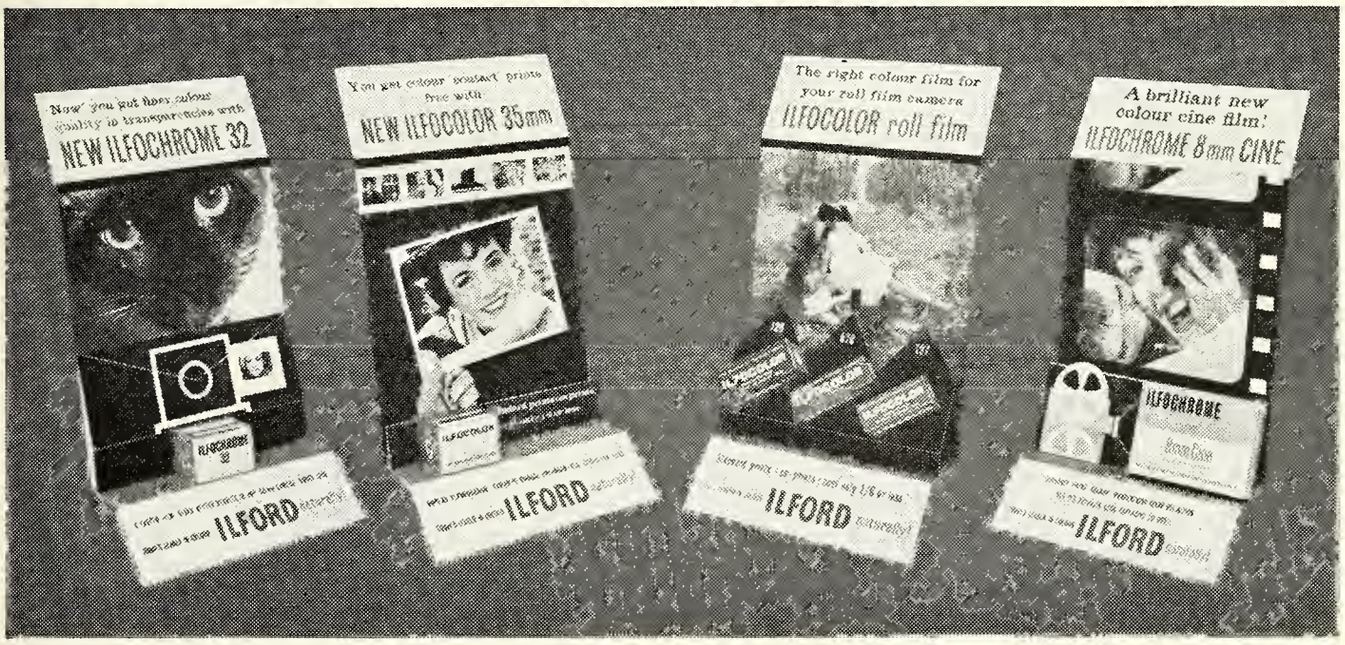
1962 ILFORD CAMPAIGN

IN YOUR SHOP

FREE promotion material with a dramatic new look will be delivered by Ilford Display Representative in April

✳ Eye-catching full colour display units for (A) Ilfochrome 32 film (B) Ilfocolor 35 mm film (C) Ilfocolor roll film (D) Ilfochrome 25 8 mm colour film.

✳ AND special counter dispenser holding colourful 8-page booklets on Ilford's exciting new products for 1962!



DISPLAYS TO BUILD UP TURNOVER

TODAY'S LEADER IN PHOTOGRAPHY **ILFORD** naturally!

L37/X/62

E





THIS BABY WILL GO TO 13,000,000 HEARTS

On April 10th over 13 million Daily Express readers will see this baby in a half-page advertisement for Ostermilk and Farex. And that is by no means all—other national newspaper advertising and Women's magazines will be telling the story of these Glaxo products. This baby will be winning a lot of hearts — and a lot of new customers for you. They'll be asking for Ostermilk and Farex. Be ready to meet the demand.

Glaxo Laboratories Ltd · Greenford · Middlesex

Take advantage of Lastonet

WE SUPPLY THE COMPLETE RANGE OF SURGICAL HOSIERY UNDER N.H.S.

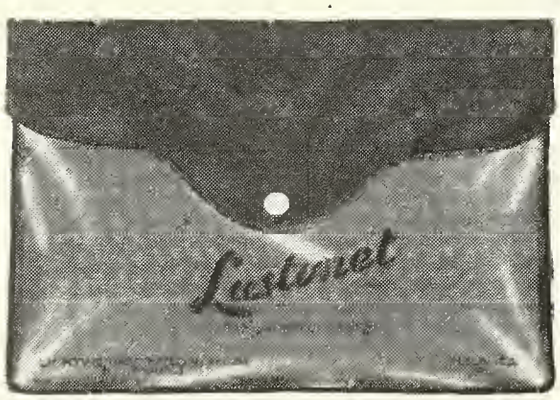
AND OUR SERVICE IS **POST FREE**



STANDARD & LIGHTWEIGHT ELASTIC NET

VARICOSE VEINS, TIRED ACHING LEGS. If you have seen samples of Lastonet standard and lightweight elastic net you will appreciate how cool, firm and comforting this material is. All Lastonet elastic net stockings are made to measure thus providing EVEN SUPPORT. Supplied under the N.H.S., within 3 - 5 days on receipt of your order. POST FREE.







STANDARD AND LIGHTWEIGHT ELASTIC YARN

If your customer prefers a yarn stocking, recommend Lastoyarn standard weight or Lastofine lightweight elastic yarn stockings. Made from the finest elastic yarn with Helanca tops and heels for comfort and long wear. Lastoyarn are available in large, medium or small sizes; Lastofine in normal foot sizes. Both are supplied under the N.H.S., by return. POST FREE. Made to measure if required, with slightly longer delivery. Your requirements in One-Way Stretch, both seamed and seamless can also be supplied by

LASTONET PRODUCTS LTD · REDRUTH · CORNWALL

new nicer AID TO SLIMMING



3/9

The traditional biscuit style packet contains four convenient take-anywhere Mini-meals in individual packs of three biscuits each. Retails at 3/9 per 12—biscuit packet. (Usual generous margins.)

with a **BIG** national launch

LARGE SPACES IN:—
WOMAN
WOMAN'S OWN
SUNDAY EXPRESS
NEWS OF THE WORLD

Supported by
Daily Mail, Daily Mirror, Daily Express, Daily Herald, People and Sunday Pictorial ... PLUS Underground escalator panels.

Crunchy, flavour-filled sandwich biscuits to swell your profits and slim your customers.

Product, Price, Publicity are right, and the Launch Date is April 8th ... you're sure to be asked for MiniBISKS immediately afterwards.

HAVE STOCKS READY

MiniBISKS are made by the world famous experts on aids to slimming diets :

ANDOMIA PRODUCTS LIMITED
GRANT ST., BRADFORD 3. P.O. Box 242.

BISKS (MiniBISKS' established sister product) have created new sales records every year since launch, and this year will be another huge success.



10% BONUS OFFER

...keep this date with PRESTOBAND

always good to have on hand!

PRESTOBAND–the unique all-purpose bandage which sticks to itself but not to the skin—is a steady, all-the-year round seller. To help you with your Spring stocking, however, here's a special SPRING BONUS for you. On all orders to the value of 40/- or more RECEIVED BEFORE 30th APRIL 1962, we will give AN EXTRA 10% DISCOUNT, in addition to our usual quantity terms. Thus:

40/- worth will be invoiced less 10%
50/- worth less 5% and 10% Bonus Discount
70/- worth less 7½% and 10% Bonus Discount

Under the best quantity and bonus terms, your real profit can therefore be £1.15.0. on an outlay of only £2.18.4.

Orders can be for any assortment of sizes and, if you wish, invoiced through your wholesaler. But, remember–the BONUS ENDS ON APRIL 30th, 1962.

SEND US YOUR ORDER NOW!

PRESTOBAND PRICES

⅝″ x 4 yds 5/3 per doz. retailing at 7d each

1″ x 4 yds 6/9 per doz. retailing at 9d each

2″ x 4 yds 13/6 per doz. retailing at 1/6 each

Sole distributors of Prestoband

FASSETT & JOHNSON LTD

86 CLERKENWELL ROAD, LONDON, E.C.1

SOLE MANUFACTURERS VERNON & CO LTD. PRESTON, LANCS

Extra profit if you order Suba-Seal now!

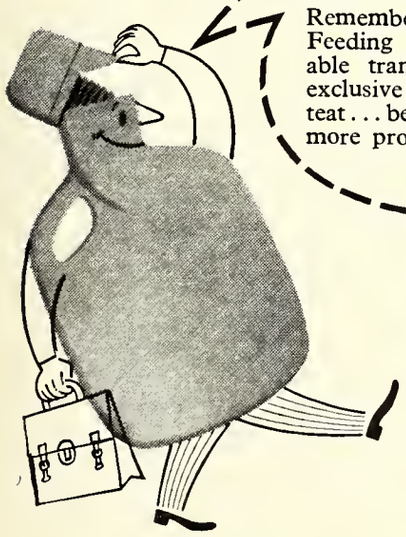
There's 5% extra discount if you order now and take delivery before December 31st. This is additional to the generous 33⅓% mark-up!



Never before have hot water bottles been advertised like this!

15 million customers will be told: 'This hot water bottle cannot leak' — again and again, throughout the selling season in: Woman's Own · Woman's Realm · Woman's Weekly... plus special booster advertisements during cold spells—scientifically timed for your area by top weather forecasters.

BABY FEEDING PRODUCTS, TOO!
Remember Suba-Seal Baby Feeding products—the boilable transparent feeder—the exclusive long-life silicone teat... better for Baby... more profitable for you.



KEEP YOUR GOODWILL—
SELL A GOOD HOT WATER BOTTLE—SELL A SUBA-SEAL

Only a genuine Suba-Seal has the original anchored Suba-Seal closure that cannot leak and cannot get lost.

Your representative will show you the whole wonderful Suba-Seal range... retail prices start at 7/6 for adult sizes and 3/11 for cot sizes.

Every Suba-Seal has a leak-proof closure... is doubly safe for children and adults... gives splutter-free filling.

REGISTERED
SUBA·SEAL
TRADE MARK

Serial No ★1553
BRITISH GOOD HOUSEKEEPING INSTITUTE GUARANTEES
REPLACEMENT OR REFUND OF MONEY IF NOT IN CONFORMITY WITH THE INSTITUTE'S STANDARDS

See your Suba-Seal Representative or write to:

WILLIAM FREEMAN & CO. LTD., SUBA-SEAL WORKS, STAINCROSS, BARNSLEY, YORKS. BARNSLEY 4081

TWO NEW WINNERS FOR THE AIRWICK RANGE

A new air-freshener and a new insecticide

THE Airwick aerosol range now welcomes two new members. First, Airwick SPRING-TIME MIST. Market research told us what housewives wanted in an air freshener—and we made Springtime Mist to fill the bill. And second, in an entirely new field — Airwick Greenfly Killer, important because it kills insects on roses and other plants without damage to foliage.



AIRWICK SPRINGTIME MIST

3/11 (new price) and **6/11**

The new air-freshener

AIRWICK GREENFLY KILLER

6/11 Large Size only

Can't harm roses!

NOTE THIS NEW AIRWICK PRICE

On April 2nd, the price of the small size Airwick aerosols was raised from 3/9d. to 3/11d. Large sizes stay the same, at 6/11d.

HEAVY ADVERTISING campaign for AIRWICK BREAKS MAY 7TH

Obtainable from your wholesaler or direct from Airwick Ltd., Slough, Bucks

CETAL
TABLETS
FOR RELIEF OF PAIN

FOR

HEADACHE, PERIOD PAINS,
RHEUMATISM, NEURALGIA,
NEURITIS, SCIATICA,
COLDS & INFLUENZA.



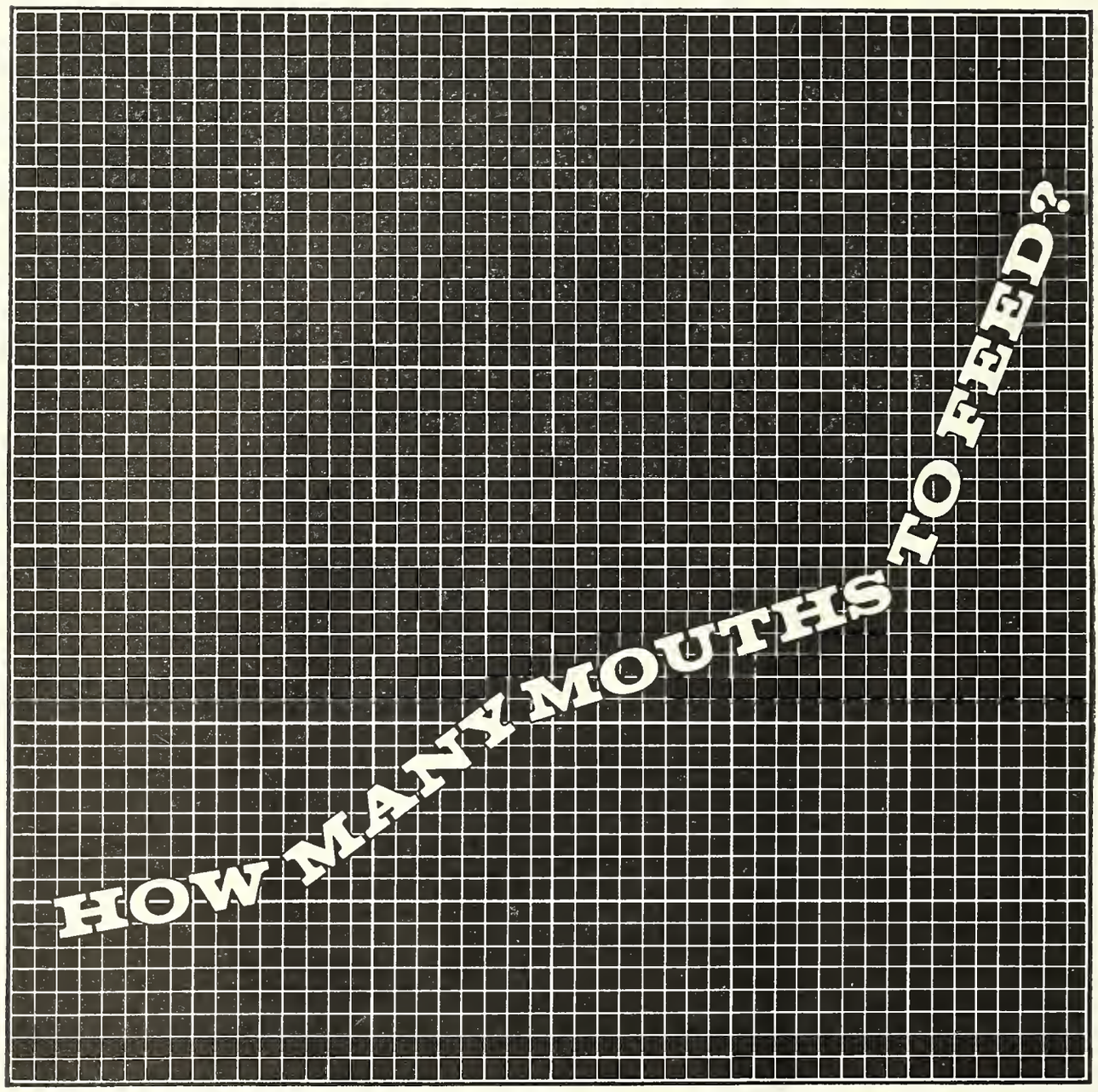
CETAL
TABLETS
contain 0.5 Gramme Paracetamol

20 Tablets size
Wholesale **15/3** doz.
Retail **1/11** each

40 Tablets size
Wholesale **26/-** doz.
Retail **3/3** each

DISPLAY BOX OFFER CONTAINING
10 Bottles of 20 Tablets; 2 Bottles of 40 Tablets
Wholesale **15/3** Retail Value **25/8**
Profit **10/5** per unit display box

W. B. **CARTWRIGHT** LTD., RAWDON, LEEDS



Recognition of the fact that the planned family is the most likely to be the happy family in the twentieth century economy is now widespread.

Your recommendation of Volpar preparations will be often timely and always acceptable. Volpar preparations are approved by the Family Planning Association.

'VOLPAR'

TRADE MARK

VOLuntary PARenthood

	PHARMACISTS	RETAIL
Paste	2/-	3/-
Gels	2/-	3/-
Foaming Tablets	2/-	3/-
Paste & Applicator	4/4	6/6

BDH THE BRITISH DRUG HOUSES LTD. LONDON N.1

Kitien

COLLECTS CUSTOMERS because Kitien COLOUR

CLINGS!



KITIEN, from the Continent, is the first lipstick to be indelible yet creamy and lustrous at the same time. KITIEN superiority shows clearly under a microscope . . . a smooth, even texture without breaks, streaks or patches. Swiss made to a unique formula, KITIEN colour *clings*, yet cannot dry the lips. With fashion-reflecting colours inspired in Paris, there are so many reasons why KITIEN collects customers. Selling Price 8/6. Enquiries invited.

Advertised in...

VOGUE
MODERN WOMAN
HARPER'S
EVERYWOMAN
QUEEN · SHE
VANITY FAIR
WOMAN'S REALM

To ABBEY PARFUMERIE CO. LTD.
7-9 Oxford Circus Avenue, London W.1

Please supply further details on KITIEN lipsticks.

NAME .....
(BLOCK LETTERS PLEASE)

ADDRESS .....

.....

SIGNATURE .....

NOW YOU CAN SHARE IN THE BIGGEST SHAVING SUCCESS STORY IN YEARS...

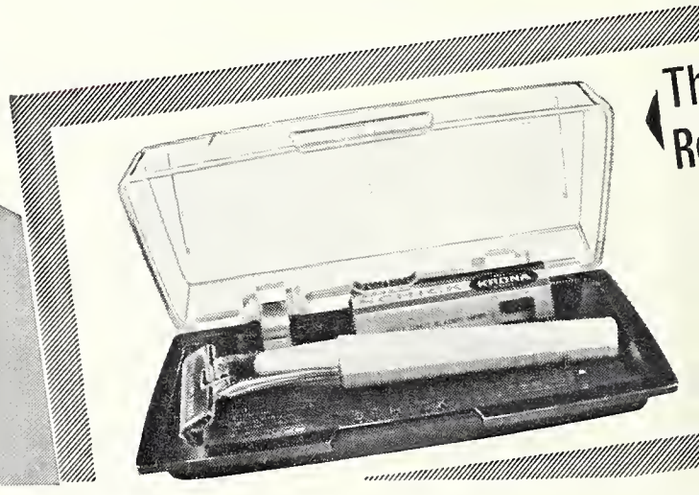


GOES NA

with this m

IN THE PRES

Whole pages in the Daily Express and Daily Mail. Repeated giant spaces in the Express, Mail and Mirror.



ERSHARP SCHICK

e world's biggest-selling ector razor

THE FIRST CHOICE OF HUNDREDS OF THOUSANDS OF MEN IN THE LONDON ITV AREA

TIONAL ON MAY 9TH

sive advertising support

ON T.V.

30 Second Spots at peak times week after week.

IN YOUR SHOP

Exciting display material including this sales compelling display unit.



model
/6
cial De Luxe
t illustrated)
ing exclusive
gic action for
-ever rinsing
entation Case
etail at **25/6**

All Schick Razor Kits have the sensational new SCHICK Injector Blades with 'KRONA -Edge'—the non-feel blades that shave your beard, not your skin. 10 blades Retail at **4/6**

World-famous Schick Regular Blades also available, 10 blades Retail at **3/1**

SCHICK INJECTOR BLADES FIT ALL INJECTOR RAZORS

Your usual wholesaler can supply you, or order direct from:

SOLE DISTRIBUTORS
J. C. GAMBLES & CO. LTD.
209/215 BLACKFRIARS ROAD, LONDON, S.E.1.



the *Lilly* medical representative

is now discussing with your doctors

'CO-PYRONIL'

Trade Mark Brand

PYRROBUTAMINE COMPOUND

Prescription item which provides quick and long lasting relief in hayfever, allergic rhinitis and other allergies.

Availabillty:
'Pulvules' in bottles of 25, 100 and 1,000.
New-Suspension in bottles of 60ml. and 16 fl. ozs.

Trade Prices

'Pulvules' 25 4/-	Suspension 60ml. 3/-
100 12/-	16fl. ozs. 14/4
1,000 110/-	

Readily available from your usual Lilly Wholesaler.

ELI LILLY AND COMPANY LIMITED · BASINGSTOKE · ENGLAND

Lilly

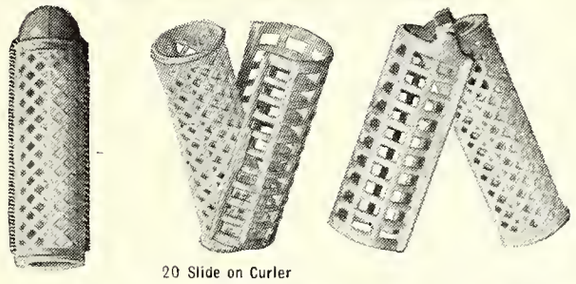


WANTED

BY WOMEN EVERYWHERE

17 Bedtime Curler

61 Revolving Curler



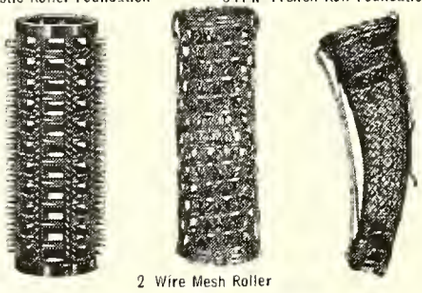
20 Slide on Curler



65 Foam Cushion Curler

66 Plastic Roller Foundation

31FR French Roll Foundation



2 Wire Mesh Roller



29 Princess Comb



31 Combi

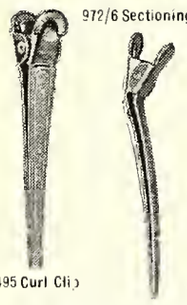


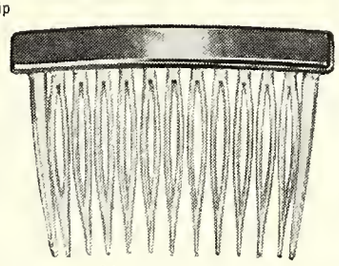
477 Curl Clip

480 Curl Clip

495 Curl Clip

972/6 Sectioning Clip





247 Side Comb

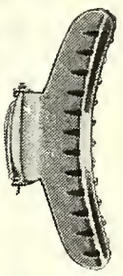
Hair Grips



Hair Pin

43 Pearline Slide





981 Wave Clip

LADY JAYNE HAIR ACCESSORIES

NEW SELF-SERVICE LADY JAYNE DISPENSERS OFFER YOU THE FOLLOWING SPECIAL BENEFITS:—



No. 51 Dispenser
Cost to Retailer £9.17.6.
Resale Value £13.3.0



No. 52 Dispenser
Cost to Retailer £5.3.7.
Resale Value £6.18.0.

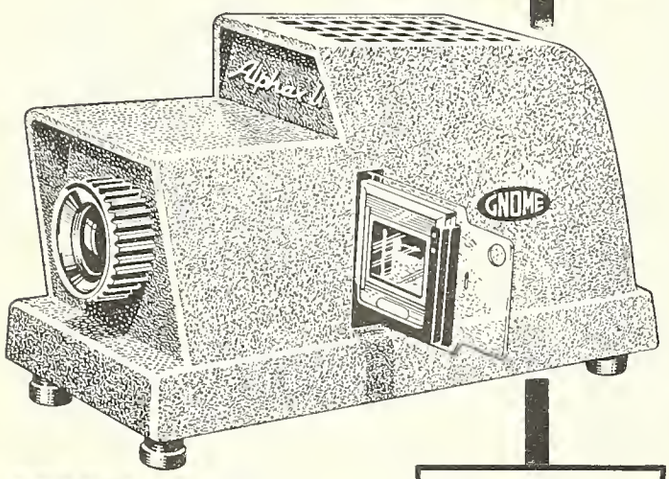
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Display Pro-Tekt-Her in your Windows and on your Counters—you'll sell it.

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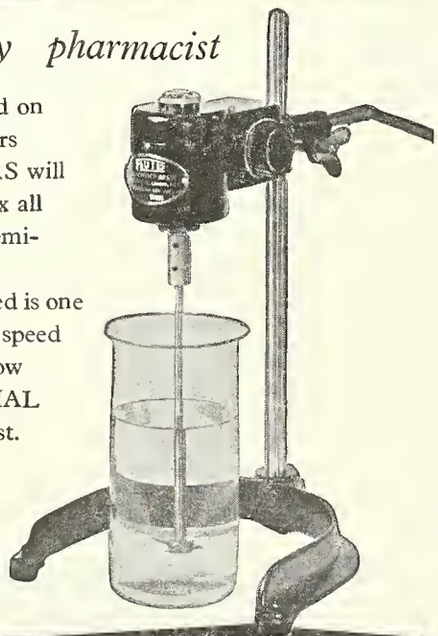
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TIME SAVER

for the busy pharmacist

While you are engaged on more important matters "FLUID" STIRRERS will effectively stir and mix all forms of liquid and semi-liquid.
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RECOMMEND IT
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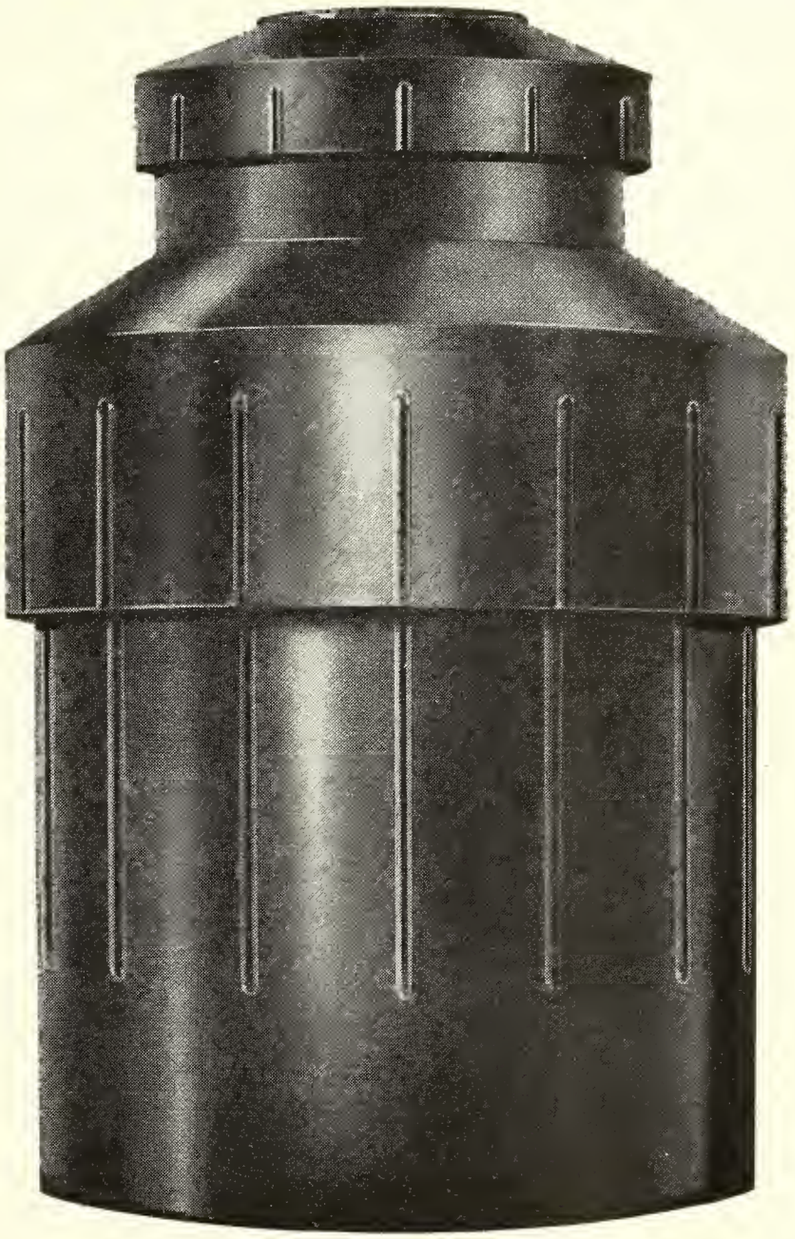
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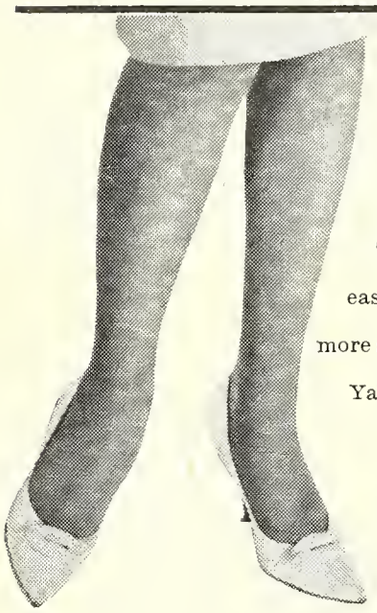
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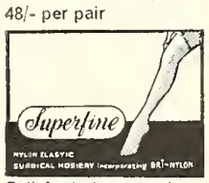
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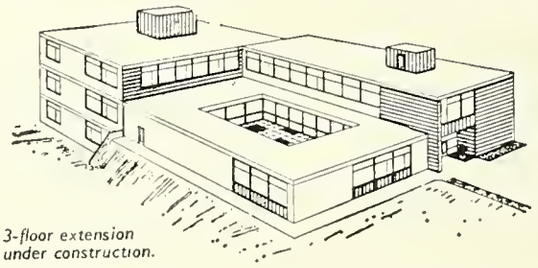
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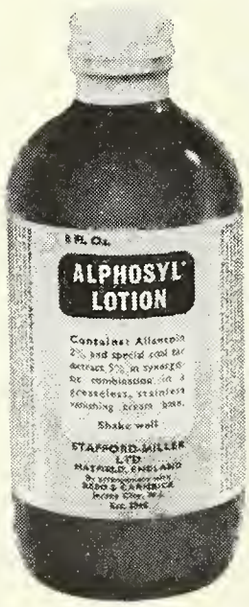
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CREAM SHAMPOO Retails at 3/9
24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoos, tubes 9d; 3 individual shampoos linked together 10½d. all packed in display outers.

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An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick drying action holds the hair, removes tangles, leaves hair free from all deposits and with a beautiful lustre.

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These Fast-Selling lines are now being advertised continually in National magazines.
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Deadly effective against houseflies, greenfly, blackfly, ants, cockroaches, moths, thrips, aphids, caterpillars.

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Non-toxic; harmless to children and animals; safe with all food.

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Range of handy Py-Packs, in powder and liquid form. Py-Puff 2/6 and 3/9; Py-Concentrate 5/9 and 3/9; permanent refillable Py-Powerspray including two charges of Py-Concentrate 12/6; Py-Spray Household Aerosol 3/9.

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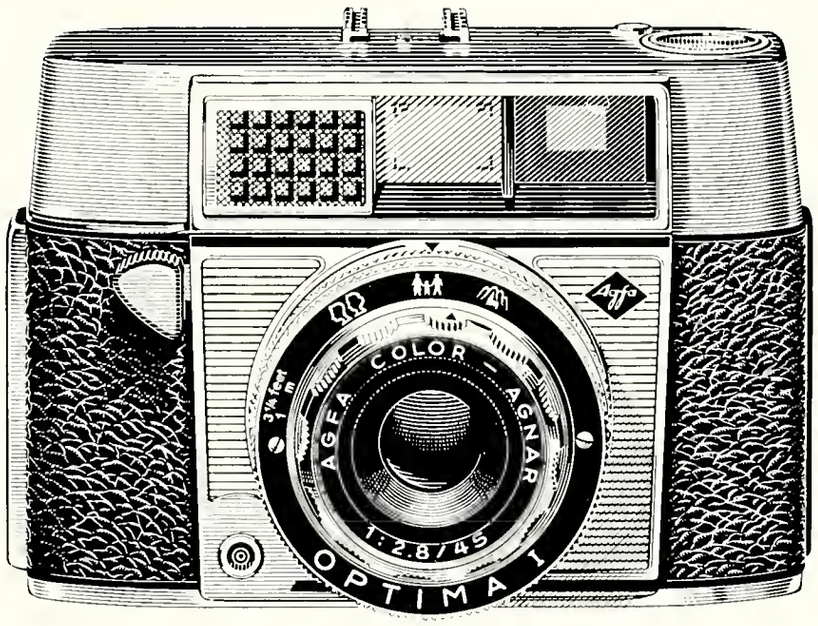
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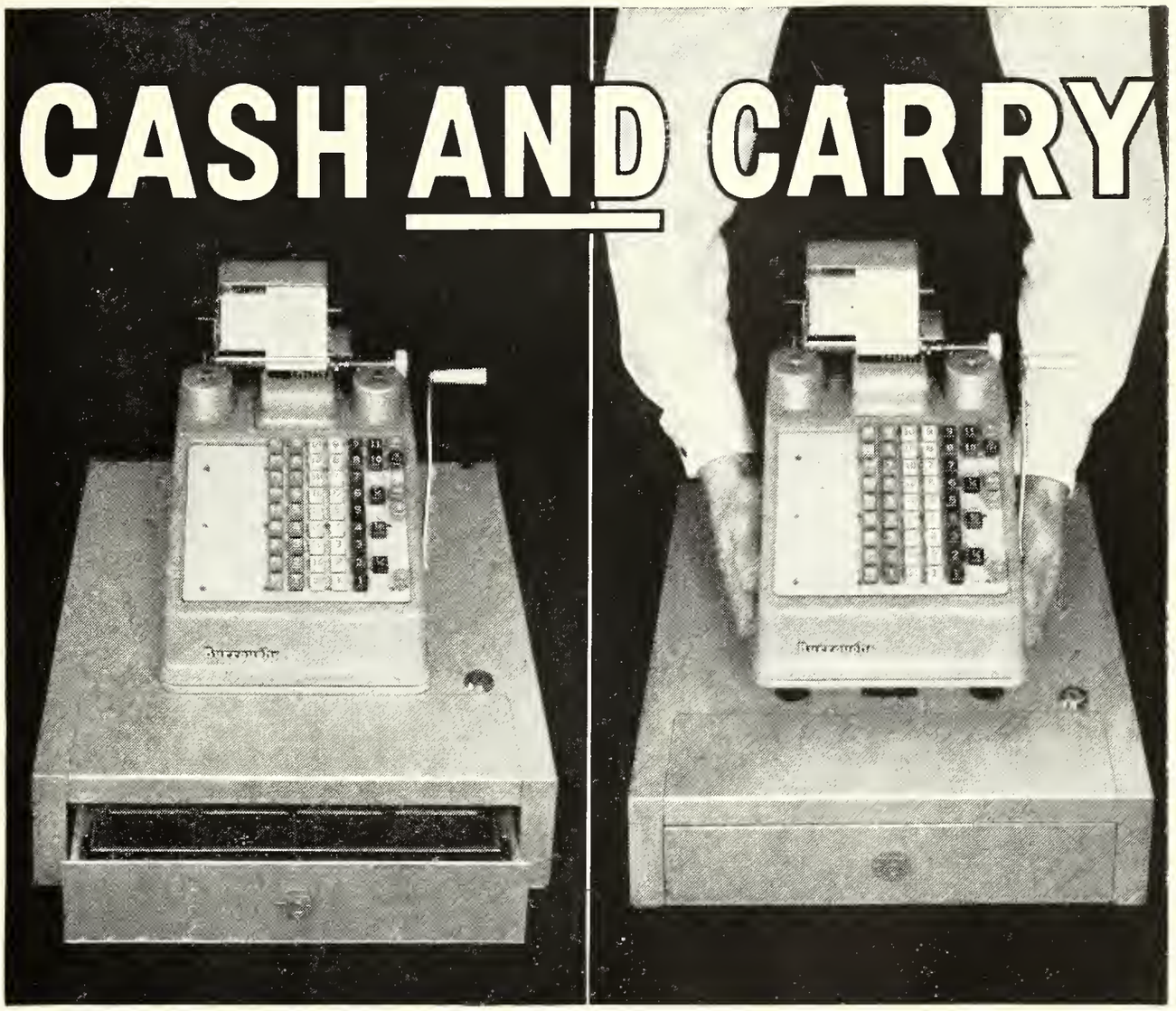
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Your extra assistant not only registers your takings, but can be used as an adding/listing machine for that end-of-day bookwork.

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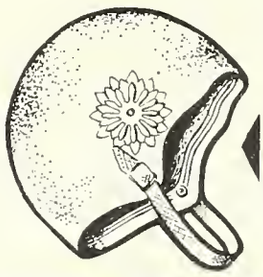
Accounting Sales and Service facilities from 56 centres in Great Britain and Eire
Manufacturing in Scotland



SWIM CAPS for 1962 by

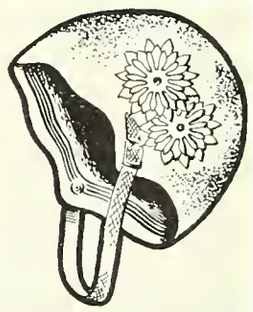
REGISTERED SUBA-SEAL TRADE MARK

SUBA-GAY
Code 1B13
Stippled finished and gaily decorated with three brightly coloured flowers. Internal serrations for water-tight fit. **6/11**



SUBA-JOY
Code 1B14
Similar in every respect to "Suba-Gay" but with two flowers only. **5/11**

SUBA-CHARM
Code 1B12
Exactly as "Suba-Gay" and "Suba-Joy" but with one gaily coloured flower only. **4/11**



Sure sellers for 1962 season . . .

Because of the huge success enjoyed by "Suba-Seal" Swim Caps last year, the range remains unchanged for the 1962 Season. Competitive pricing, good styling and the famous "Suba-Seal" quality ensures for you another busy season.

"Suba-Seal" Size Range—"Golden Girl" is available in three sizes, small, medium and large. "Sea Child" and "Sea Diver" are available in one size only. All other models are available in two sizes, small and medium/large.

"Suba-Seal" Colour Range—"Sea Diver" is available in black or white. All other styles in a choice of white, pink, yellow or blue with the additional choice of gold for "Golden Girl".



CORONET REGD.
Code 1B11
With attractive all-over ornamental design, complete with internal serrations, giving a really water-tight fit. **3/9**



SEA MAID
Code 1B4
A high quality bathing cap in attractive Shell Design, complete with internal serrations. **3/9**



SEA CHILD REGD.
Code 1B7
One size only, an appealing design for children; depicting Mermaids, Sea Horses and Shells. **2/6**



SEA GIRL REGD.
Code 1B8
One of last season's most popular models with attractive Leaf and Petal Design, also complete with internal serrations. **2/9**



GOLDEN GIRL
Code 1B9
Smart, Fashionable, incorporating six special seals for added water protection, beautiful Golden Finish. **4/11**

ALL PRICES INCLUDE PURCHASE TAX



SEA DIVER
Code 1B6
Male skull cap in Black or White only. **2/9**



The CAPS with the CLIPS

The "Suba-Seal" Range of Bathing Caps are all packed in Polythene bags with novelty Plastic Hanging Clip, with the exception of the Sea Diver which is individually packed in film-fronted printed bags.

WILLIAM FREEMAN & CO., LTD., SUBA-SEAL WORKS, STAINCROSS, BARNSLEY, ENGLAND

Linc-o-Lin

Star Products



Linc-o-Lin BEER SHAMPOO

THE SHAMPOO WHICH HIGHLIGHTS AND SETS THE HAIR IN ONE APPLICATION. CONTAINS GENUINE BEER. IN 4 STRIKING NOVELTY PACKS.

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Box of 3 doz. SINGLE SACHETS, **16/8** plus **4/7** Purchase Tax (retail **10½d.** each)

Box of 3 doz. TWIN PACKS (2 shampoos—his and hers), **23/4** plus **6/5** Purchase Tax (retail **1/2** each)

Box of 6 ' MAGNUM ' PACKS (each containing over 20 shampoos), **16/8** plus **4/7** Purchase Tax (retail **4/11** each)



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A wonderful conditioner which performs several functions in one application—stops breakage and splitting, reconditions hair and scalp, controls dandruff, restores hair damaged by excessive cold waves and bleaching, adds life and lustre to the hair. People who try it once, use it always. Box of 1 doz. 2-oz. bottles, **15/-** plus **8/3** Purchase Tax (retail **2/9** each)



Linc-o-Lin 'INSTANT' HAND CREAM

Definite results seen after the first application. In dainty hand shaped containers.

Box of 1 doz. 4-oz. packs: **£1 10s. 0d.** plus **16/6** Purchase Tax (retail **5/6** each)

Box of 3 doz. 1-oz. packs: **£1 6s. 8d.** plus **14/8** Purchase Tax (retail **1/9** each)

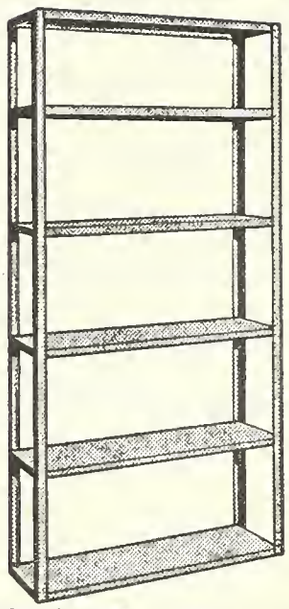
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Free delivery within 14 days, N. Scotland, Ireland, I.O.M. Carriage forward.

71" high x 34" wide, 12" deep with 6 shelves as illustrated.

Height	Width	Depth	No. of Shelves	Price	Price each 3 or more
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71"	34"	12"	6	65/-	63/-
71"	34"	15"	6	85/-	83/-
85"	34"	12"	6	73/-	71/-
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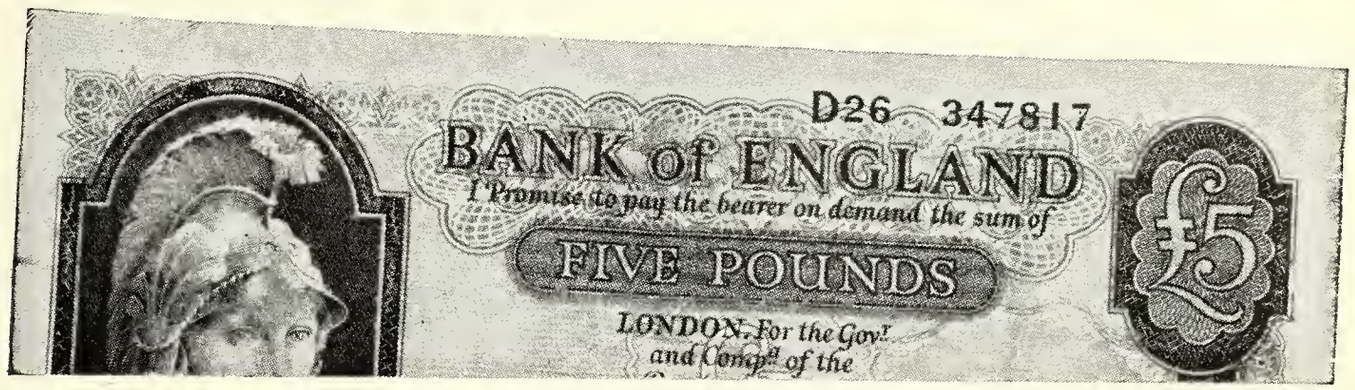


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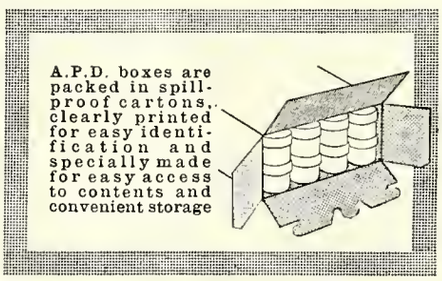
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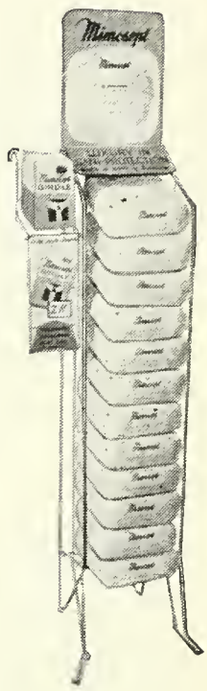
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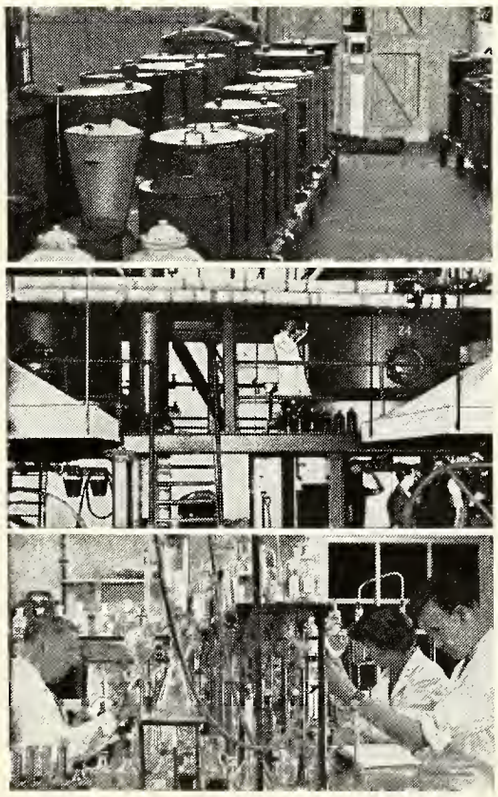
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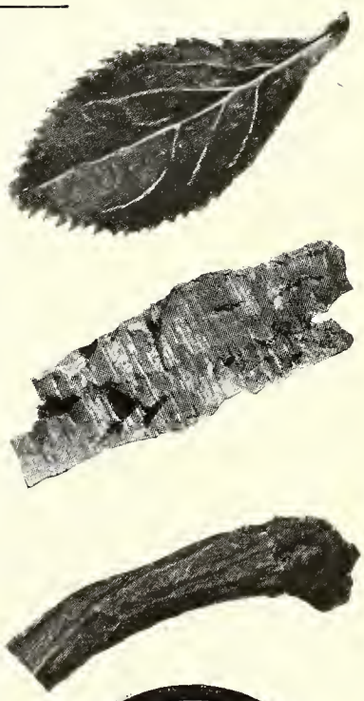


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an antiseptic, emollient and analgesic cream, combining the astringent and soothing properties of hamamelis and zinc oxide and the analgesic effect of chlorbutol. 'Haemamol' gives quick relief in haemorrhoids, abrasions and skin irritations.

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In display outers of 1 dozen, from your usual wholesaler.

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A NEW ALL-PURPOSE PERSONAL
WEIGHING MACHINE
For Babies—Children—Adults
No Loose Weights—Capacity 20 stone × 1 oz.

These machines are manufactured in our Works at Edmonton, London, N.18.



They have been specially designed for Chemists' shops where space is limited.

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Will give extremely accurate weighing service and comply with local Weights and Measures Bye-laws.

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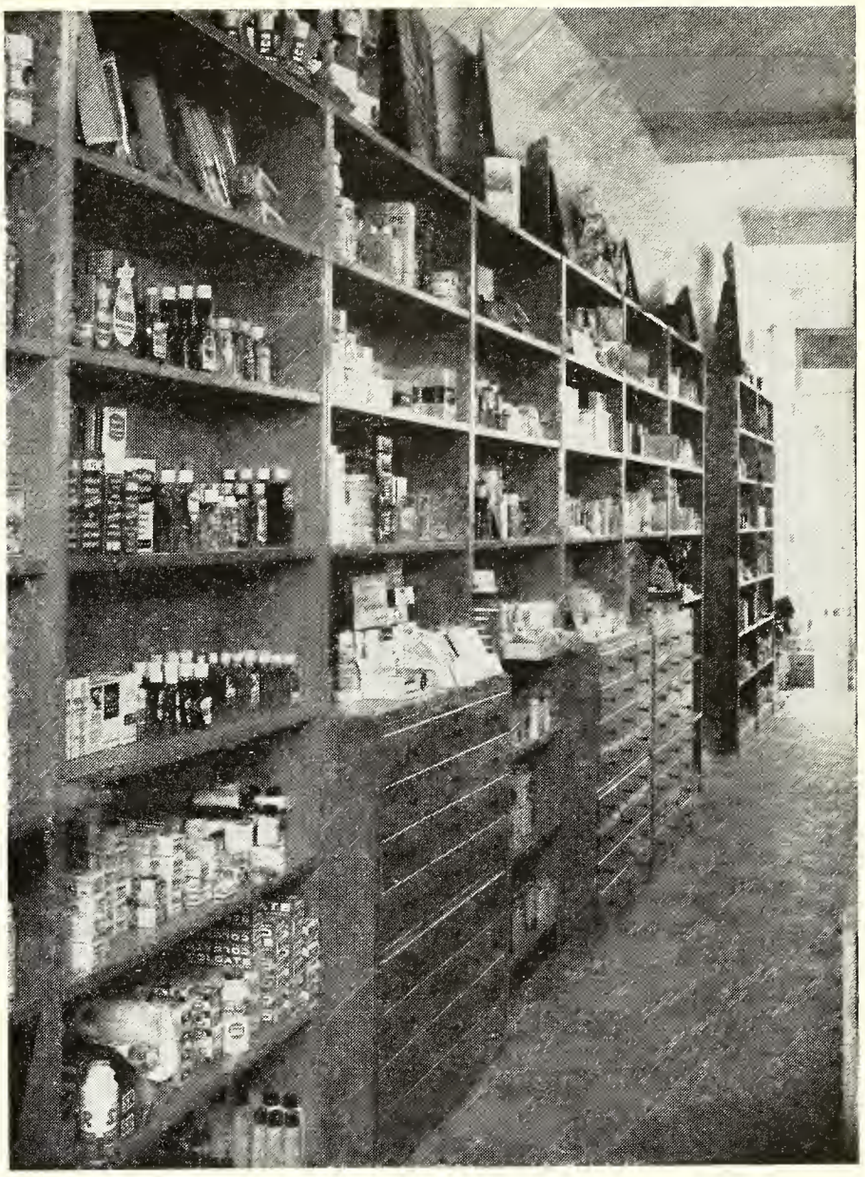
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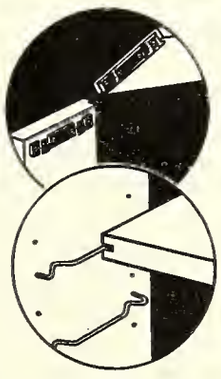
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FOR OVER 100 YEARS
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Remploy Lundia SHELVING



Easy to assemble Strong fully interlocking bars fit neatly into one another, securely holding top, bottom and centre shelf to uprights.

Shelves simple to adjust Special spring clips plug into uprights of Remploy-Lundia Shelves at ¾ inch intervals. The shelves, grooved at both ends, slide along the clips, completely concealing them. Shelf grooves do not show from front view.

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Fitting or refitting your shop with Remploy-Lundia prefabricated shelving saves you money. It needs no outside labour to assemble . . . it costs far less than custom-built installations . . . and it is remarkably adaptable.

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DRUG STORE, large double-fronted lock-up shop opposite busy underground station and bus terminal, S.W. London. Unopposed position. Recently modernised. High-class luxury trade. Best cosmetic agencies. Ample room additional selling lines and introduction dispensing. Good D./P. photographic. Certified takings £12,000 rising. £2,300, s.a.v. Box C 4455.

FREEHOLD PROPERTY, London area. A drug store, near market, main road. Established 16 years. Ill health of partner reason for selling. Box C 4425.

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Locum Pharmacist-in-Charge

required, May 28—June 9, September 10—September 15.
Weekly salary £20 9s. 6d. plus 19s. 2d. London weighting.
Resident accommodation available if required. Apply House Governor, Dreadnought Hospital, Greenwich, S.E.10. C 7326

ALTON HOSPITAL MANAGEMENT COMMITTEE

Assistant-in-Dispensing

Applications invited for post of Assistant-in-Dispensing at LORD MAYOR TRELOAR HOSPITAL, ALTON, HANTS. Apothecaries' Hall Certificate essential. Post vacant 1st June, 1962. Whitley Council conditions of service. Applications with names and addresses of two referees to the Group Secretary, at the above address. C 4483

BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS (490 beds)

Pharmacist

required in this modern and well-equipped Pharmacy (Category V Hospital). Whitley Council scale with London Weighting. Applications to Hospital Secretary with names of two referees. C 7305

BROOKWOOD HOSPITAL, KNAPHILL, WOKING

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required 1st May—30th September. Applications to Hospital Secretary with names of two referees. C 7304

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for Bethnal Green Hospital. Modern department. Salary scale £770 — £1,010 p.a. plus higher qualification allowance and London Weighting. Please apply to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

DULWICH HOSPITAL, EAST DULWICH GROVE, LONDON, S.E.22

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Vacancy for Senior Pharmacist at this busy general hospital. £770 — £1,010 p.a. plus London Weighting Allowance. Hospital within easy reach of central London. The Chief Pharmacist, to whom applications should be addressed, will be pleased to show applicant round the Department. C 7308

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Assistants-in-Dispensing

for holiday relief duty.
June 24—July 7
July 15—July 21
Apply to Chief Pharmacist, St. Leonard's Hospital, Nuttall Street, London, N.1. C 593

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, LONDON, N.W.10

Post-graduate Student

Vacancy July 1962. Applications are invited for this position, stating age, qualifications and experience and the names of two referees to the Medical Director. C 7311

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist-in-Charge

at Mildmay Mission Hospital for holiday relief duty.
12th June—16th June
30th July—11th August
Salary 21 guineas per week. Apply to Chief Pharmacist, St. Leonard's Hospital, Nuttall Street, London, N.1. C 584

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, LONDON, N.W.10

Pharmacist or Assistant-in-Dispensing

required. Applications giving full particulars and the names of two referees to Medical Director as soon as possible. C 7310

EVELINA CHILDREN'S HOSPITAL OF GUY'S HOSPITAL, SOUTHWARK BRIDGE ROAD, LONDON, S.E.1

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required. Interesting and varied duties in pleasant department. Canteen facilities. Salary according to age, £260 at 18 rising to £445 at 22 and annually thereafter, according to experience, to maximum £605. £50 extra if suitably qualified. Apply immediately stating age and experience, to the Hospital Secretary. C 7324

HAREFIELD HOSPITAL, HAREFIELD, MIDDLESEX

Senior Pharmacist

Applications are invited for the post of Senior Pharmacist at the above hospital of 608 beds. Applications stating age, qualifications and previous experience, together with copies of two references, to the Hospital Secretary. C 7315

MOORFIELDS EYE HOSPITAL

Assistant-in-Dispensing

required (Apothecaries' Hall Certificate) for duty at High Holborn Branch, London, W.C.1. Salary in accordance with Whitley Council scale. Applications to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1. C 7323

THE LONDON HOSPITAL, WHITECHAPEL, E.1

Locum Pharmacist

required immediately. Salary £18 18s. per week. Applications to House Governor. C 590

STOCKPORT AND BUXTON HOSPITAL MANAGEMENT COMMITTEE

Pharmacist

required at Stockport Infirmary, a general hospital of 165 beds and busy casualty and out-patient departments.
Applications with full particulars and the names of two referees, to be made to the undersigned.
59B Shaw Heath, Stockport. E. J. DURRANT, Group Secretary. C 4494

THREE COUNTIES HOSPITAL, ARLESLEY, BEDFORDSHIRE

Assistant-in-Dispensing

Applications are invited for Assistant-in-Dispensing. Salary and conditions as Whitley Council scale, £425 at age 22 or over, rising to £575 per annum. Accommodation available for single man or woman applicant. Applications, stating age and experience, together with the names and addresses of two referees, should be sent to The Medical Superintendent. C 576

Appointments—Continued

**WINTERTON HOSPITAL,
SEDGEFIELD,
STOCKTON-ON-TEES,
Co. DURHAM**

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Applications are invited from Pharmacists (Male or Female) for the post of Chief Pharmacist (Category II) at the above large and active Psychiatric Hospital. Present salary scale: £895 x £35 (3)—£1,000 x £40 (5)—£1,200.
Accommodation may be available for single person.
Conditions of Service include a Sickness Scheme, paid Annual Leave and the provisions of the Health Service Superannuation Regulations will apply.
Appointment subject to satisfactory medical examination.
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Send by POSTCARD to the Group Secretary at the above address for Application Form, to be returned by Saturday, 14th April, 1962.
C 7319

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**BELFAST EDUCATION COMMITTEE
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Salary per annum: £2,050 rising to £2,230.
The person appointed will be responsible for the internal degree courses leading to the B.Sc. (Pharmaceutics) degree of The Queen's University of Belfast, and for courses leading to professional qualifications as pharmaceutical chemists. Interest in the development of research projects is desirable and will be encouraged.

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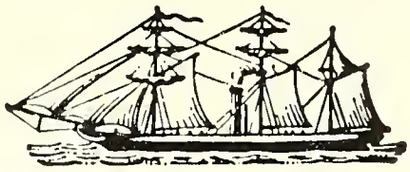
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C 4487

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Established 1892

The only College in S.E. England teaching exclusively for the Assistant-in-Dispensing Examination of the Society of Apothecaries. Enrolling now for six months' full time course of Student Dispensers under 1956 Regulations. 82 per cent. Examination successes in 1960. C 404



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Applications are invited from Pharmacists between the ages of 20 and 35, who are keen to make for themselves an overseas career in commerce with a leading marketing organisation in a number of African (not South) territories. Duties, which involve some travelling within a specific territory, include sales promotion and administration. Contracts vary from 18 to 24 months, depending on territory, followed by generous home leave on full pay. These positions carry with them a non-contributory Pension Scheme and offer excellent prospects for promotion in an expanding organisation with opportunities in the East.

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C7321

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They are seeking Agents who know this particular trade to enter into an agreement for a number of years. The firm's own Sales Force is fully engaged and cannot carry the line, hence this notice.

Well established agents, reputable and reliable only need apply. It should prove profitable to the right firm. Apply Box No. C 4489 with details of area at present covered and any other cogent information.

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ACCRINGTON, Lancs. Manager required for pleasant, well-fitted branch business enjoying family trade and average dispensing. Adequate experienced staff. House purchase scheme and superannuation if required. Occasional long weekends. Good annual bonuses. Three weeks' holiday. On past records, a really progressive post for a keen enthusiastic manager (lady or gentleman). Please state experience, age, etc., to G. T. Espley, M.P.S., 49/73 Daisy Lane, Blackburn. C 4475

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BRITISH SUBSIDIARY of important Australian company requires male assistant. Experience in pharmaceuticals and general office management desirable. Future prospects available to suitable applicant. Write stating age, full particulars and present salary to Box C 4488.

J. GILBERT JACKSON, LTD. (a subsidiary of Evans Medical, Ltd.), Sheffield, have a vacancy for a despatch manager. The position calls for a man of experience of wholesaling and handling of transport and staff. Applicants should preferably be between the ages of 25 and 45 years. Good prospects, pension scheme. Apply in confidence stating age and full details of career to:—Managing Director, J. Gilbert Jackson, Ltd., 56 Ellin Street, Sheffield, 1. C 4482

BDH

Owing to promotion within the Organisation, a vacancy has occurred for a

MEDICAL REPRESENTATIVE

in

WEST LONDON

Applicants for this important territory should preferably be Pharmacists or have a closely related technical background and should be between the ages of 25 and 45 years. They must be enthusiastic and possess initiative and drive. Previous experience in Medical Representation will be considered an advantage.

A Company car, liberal expenses, profit sharing and incentive schemes, together with the benefit of a superannuation/life assurance scheme, are provided. There is a good starting salary and opportunities for promotion.

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THE BRITISH DRUG HOUSES LTD.
Graham Street, London, N.1

C 7314

STAFFORD ALLEN & SONS LTD., require a

REPRESENTATIVE FOR SCOTLAND

Applicants should be aged 26—35. The work involves calling on manufacturing and wholesale pharmaceutical houses, food and confectionery manufacturers—no retail work. The position offers considerable scope and variety for a keen and enthusiastic man who must be resident in Scotland. Write giving full details to The Managing Director, Stafford Allen & Sons Ltd., Wharf Road, London, N.1.

C 7307

Situations Vacant—Continued

BDH

A vacancy has occurred for a

REPRESENTATIVE

to call on Doctors and Pharmacists in Northern Ireland.

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Details of age, education and experience, to:—

The Personnel Manager,
Ref. HAC/KA,
THE BRITISH DRUG HOUSES LIMITED
Graham Street, London, N.1

C 7313

MEDIUM-SIZED City Chemical Import Merchants representing overseas factories require a man age approx. 30/45 to run department handling raw materials for pharmaceutical and allied industries. Pension scheme and car provided. Write Box C 4490.

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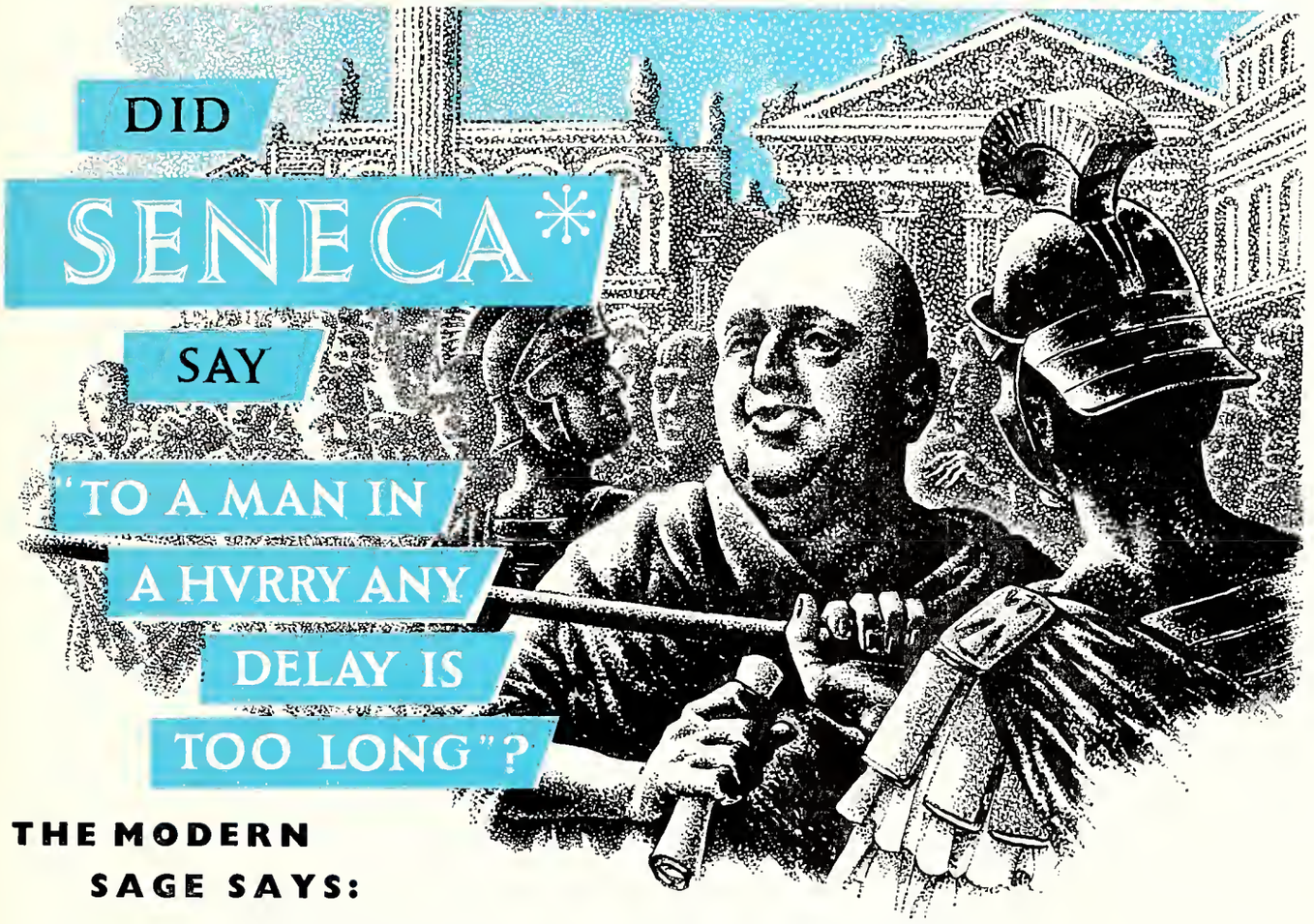
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* *What Seneca actually wrote was:*
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The CHEMIST AND DRUGGIST
APRIL 7 1962



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